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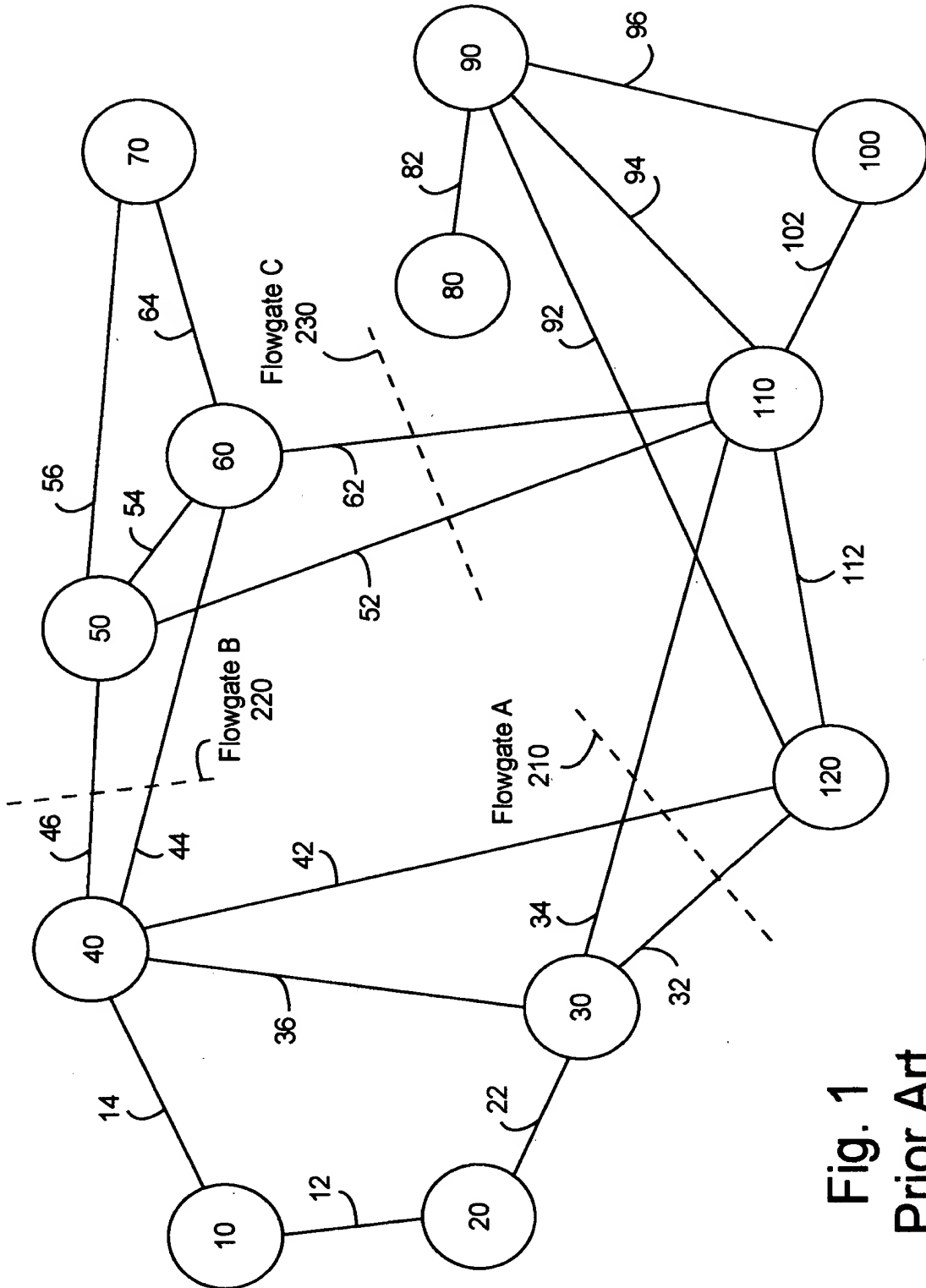


Fig. 1
Prior Art

Bus	Flowgate		
	A	B	C
1	0.70	0.30	0.30
2	0.80	0.20	0.20
3	0.90	0.10	0.10
4	0.60	0.40	0.40
5	0.60	-0.60	0.40
6	0.50	-0.50	0.50
7	0.55	-0.55	0.45
8	0.20	-0.20	-0.20
9	0.05	-0.05	-0.05
10	-0.01	0.01	0.01
11	0.00	0.00	0.00
12	-0.05	0.05	0.05

Fig. 1B
Prior Art

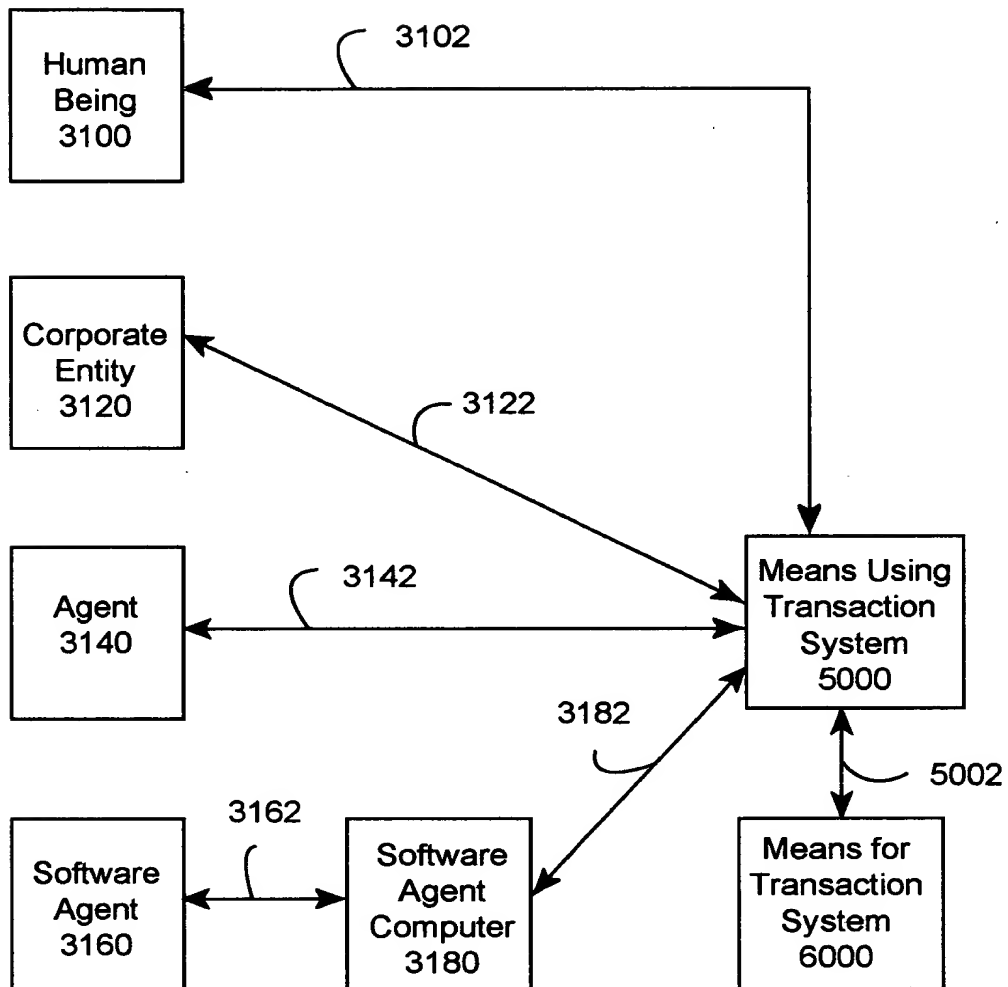


Fig. 2A

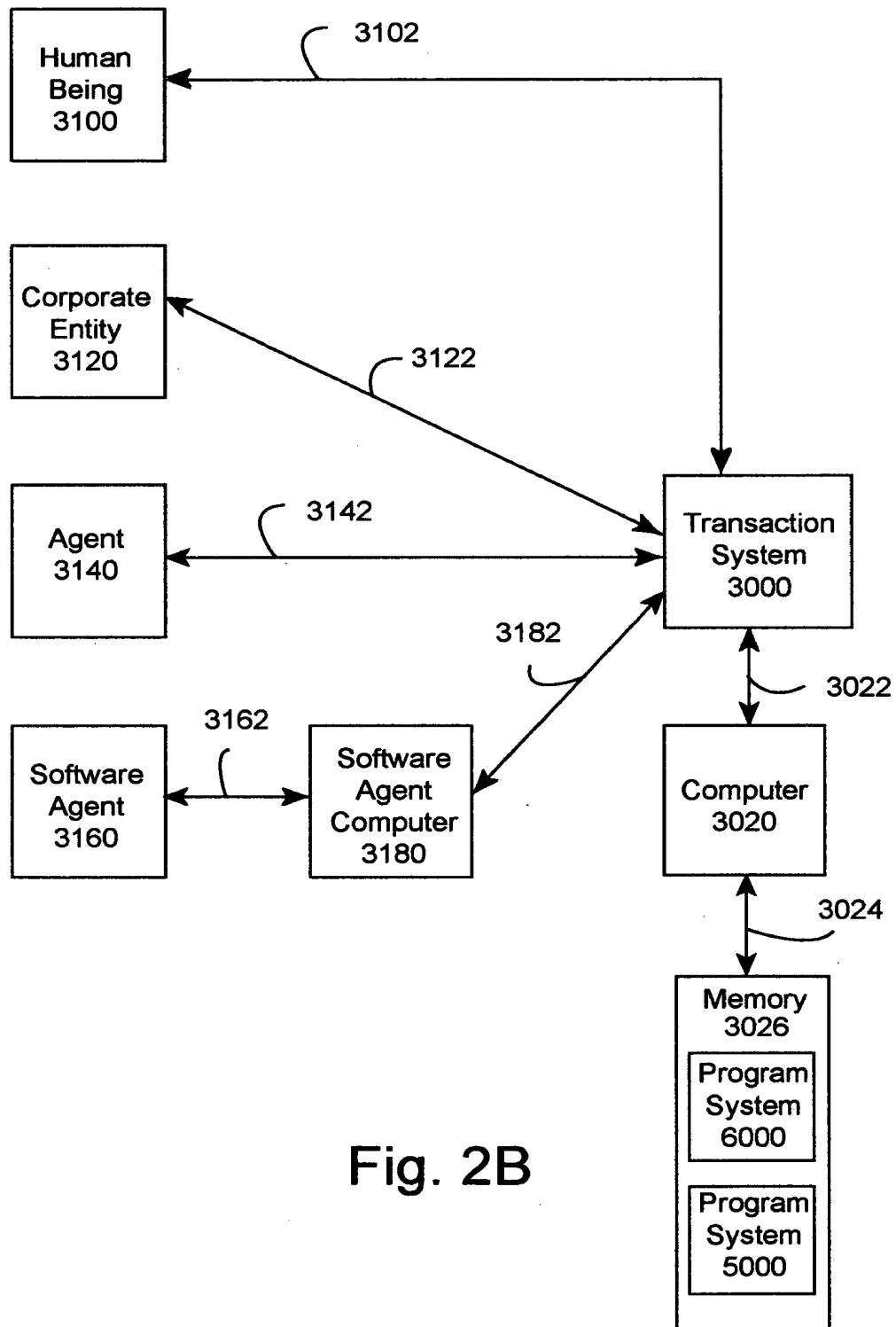


Fig. 2B

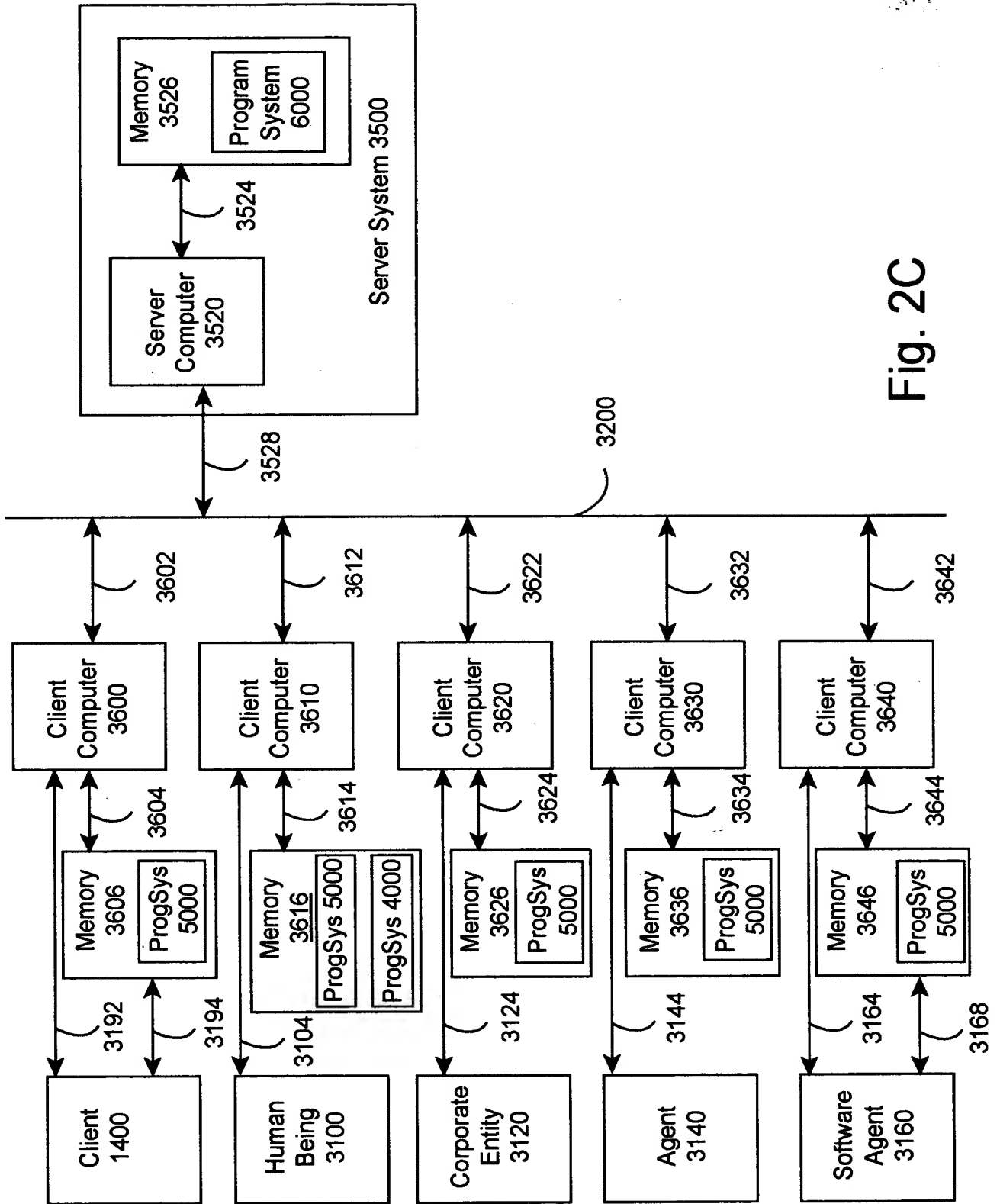


Fig. 2C

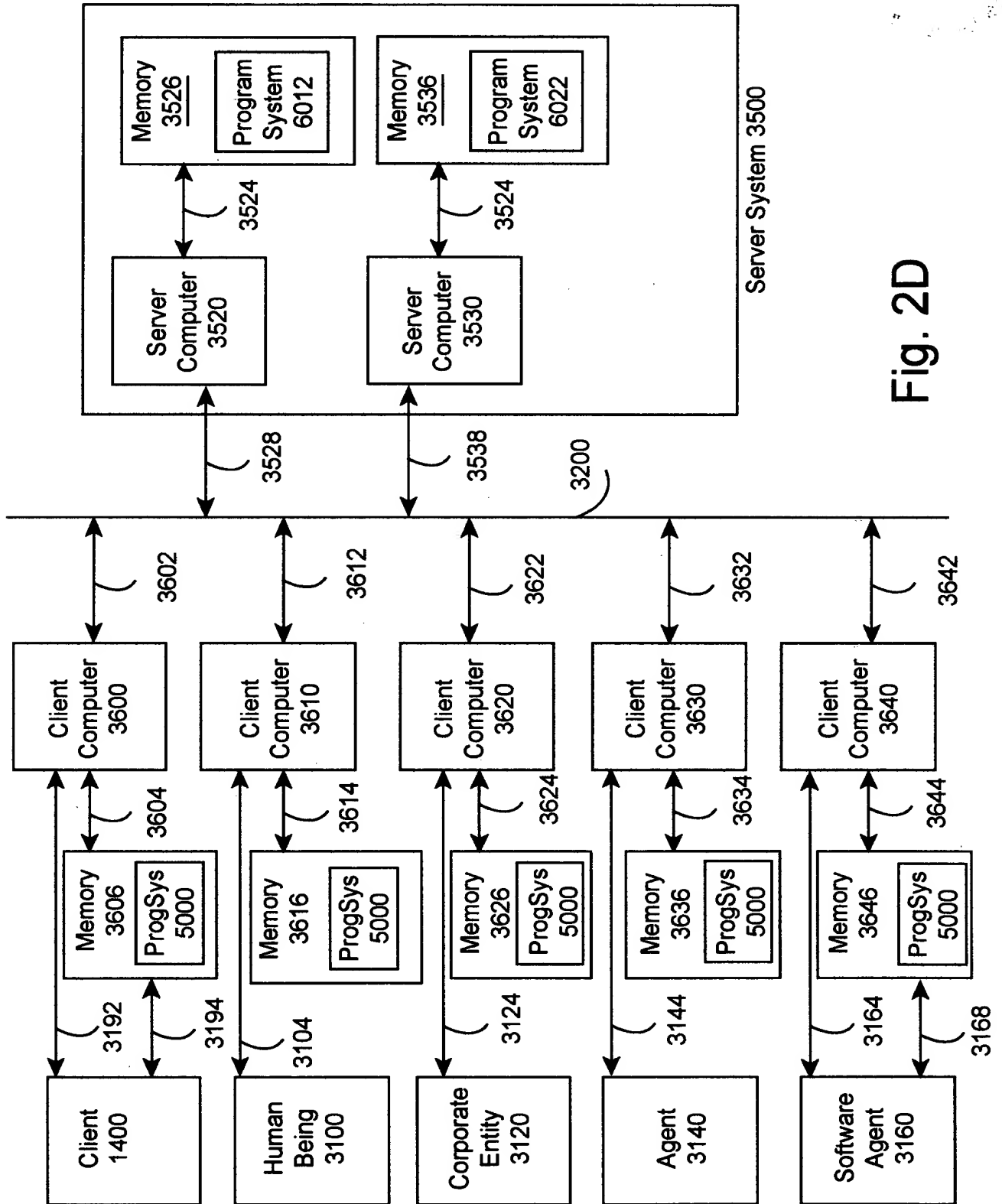


Fig. 2D

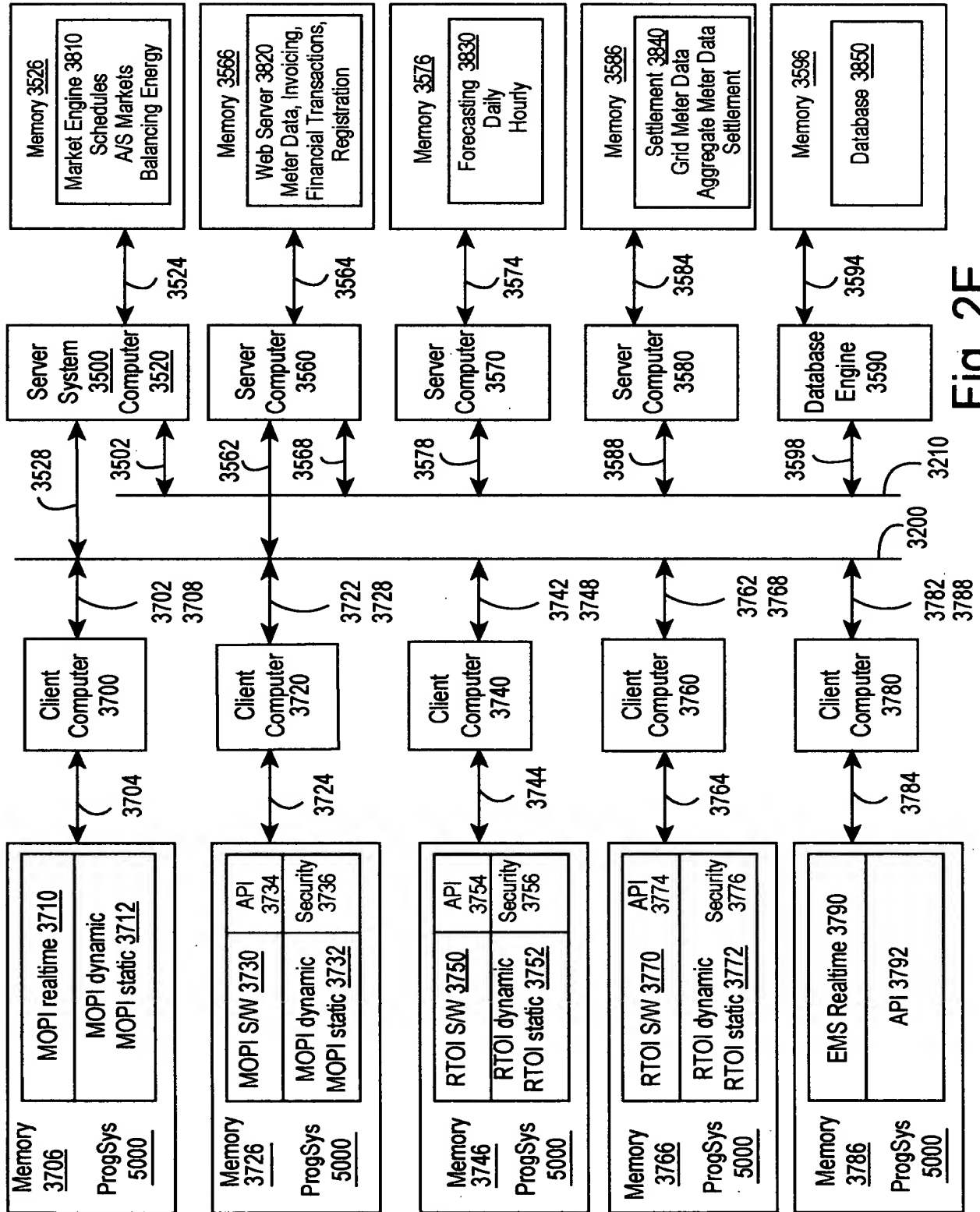


Fig. 2E

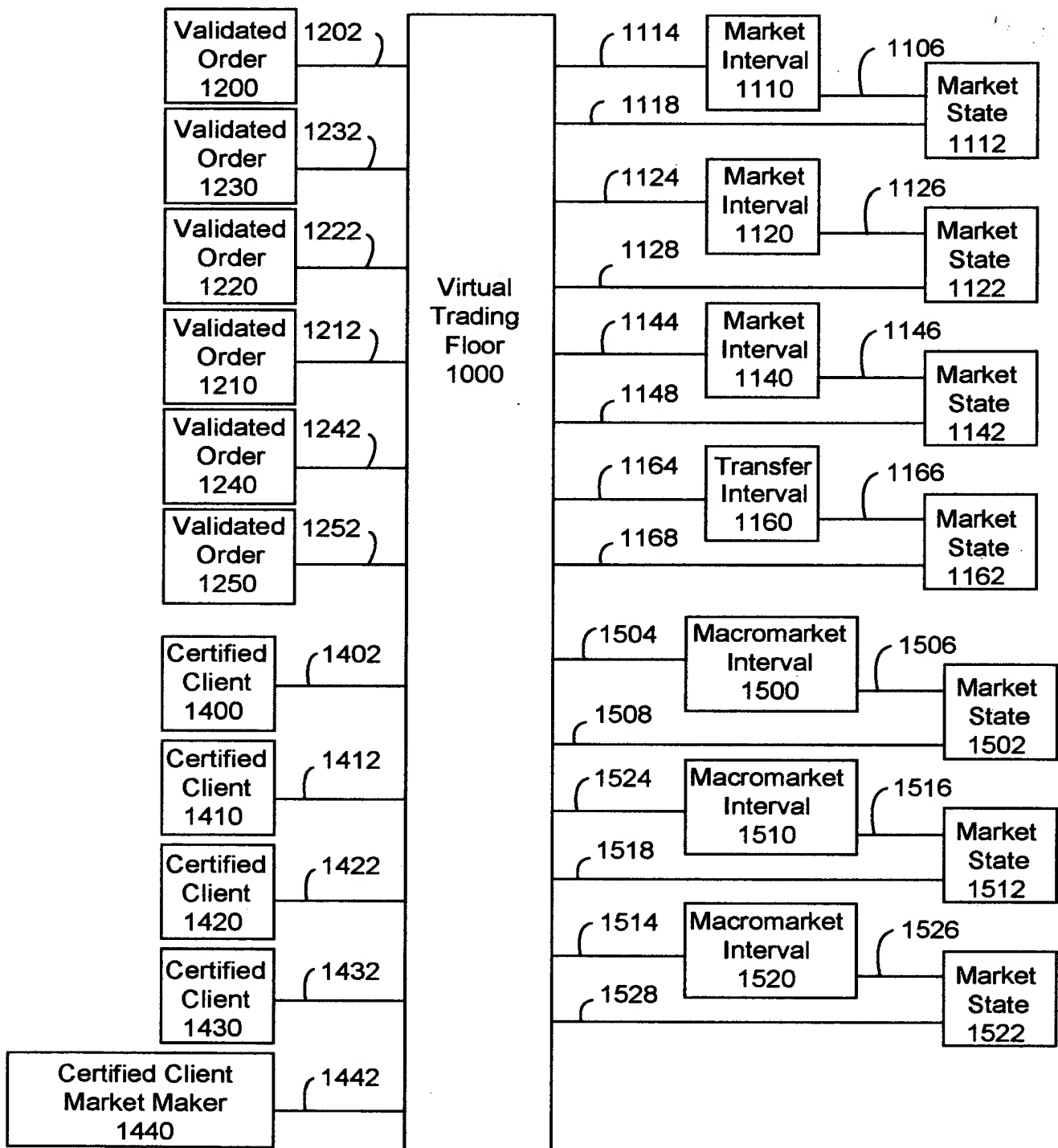


Fig. 3A

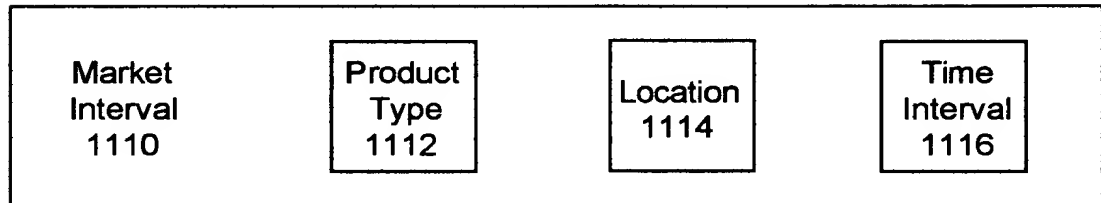


Fig. 3B

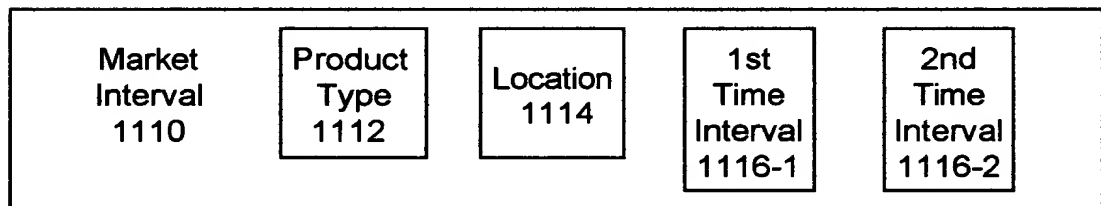


Fig. 3C

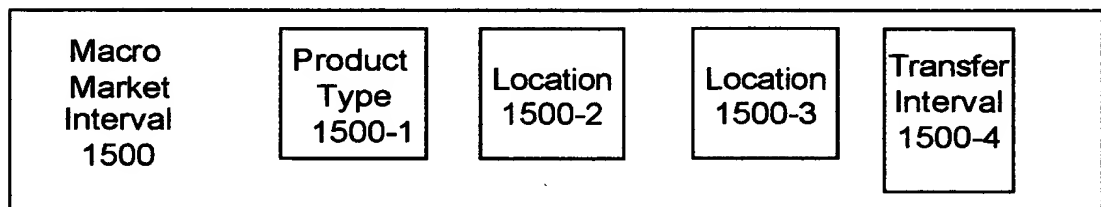


Fig. 3D

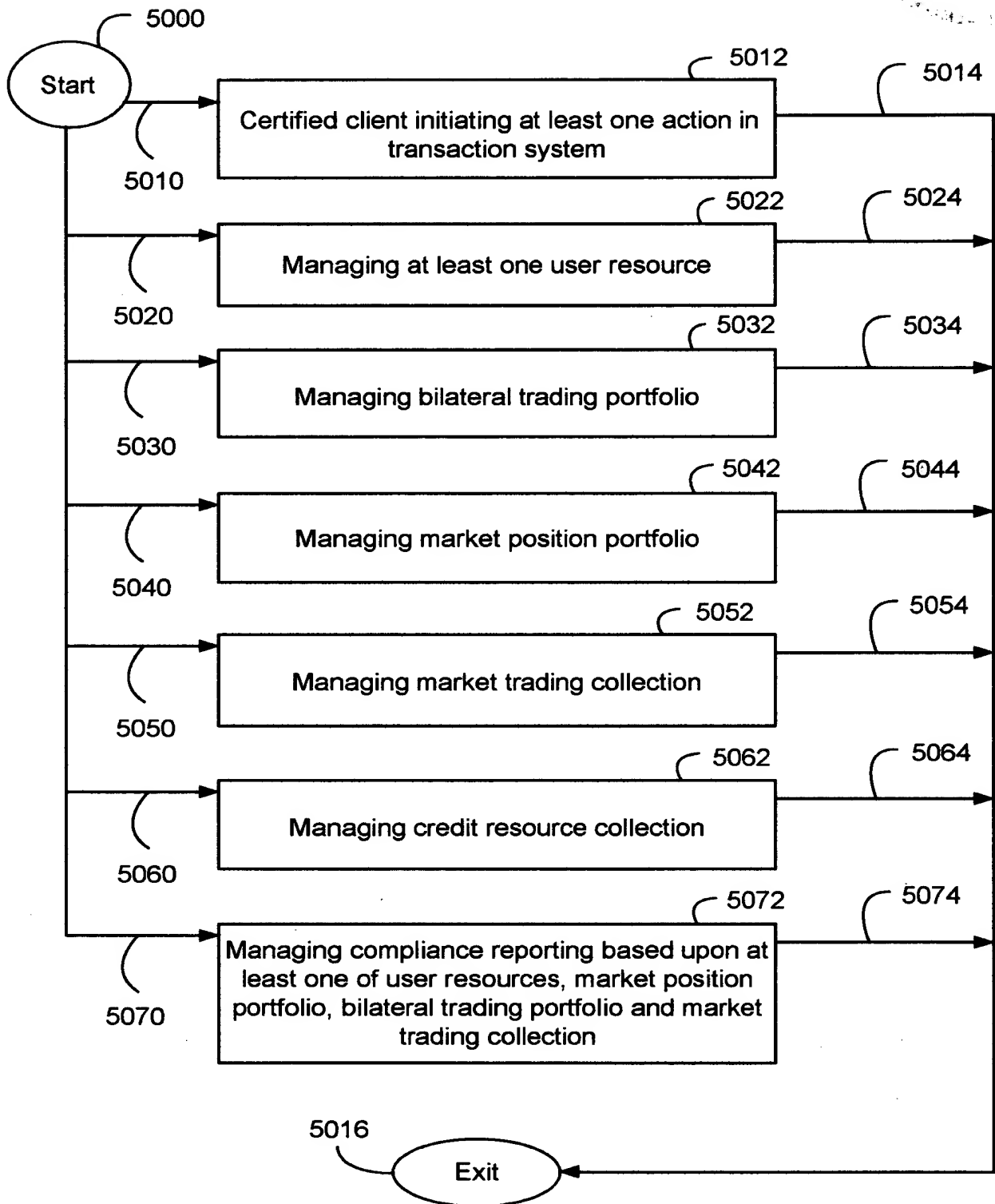


Fig. 4

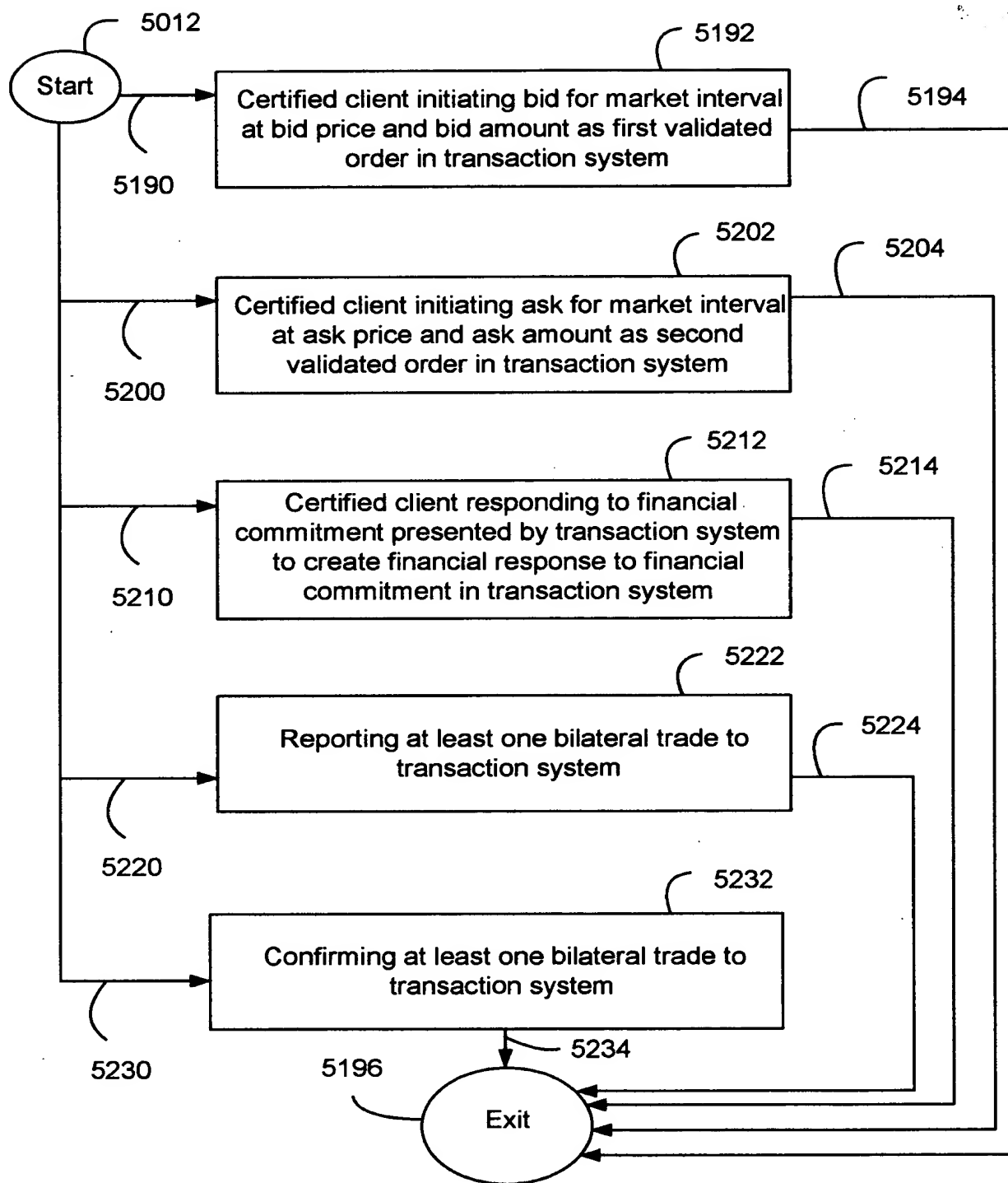


Fig. 5A

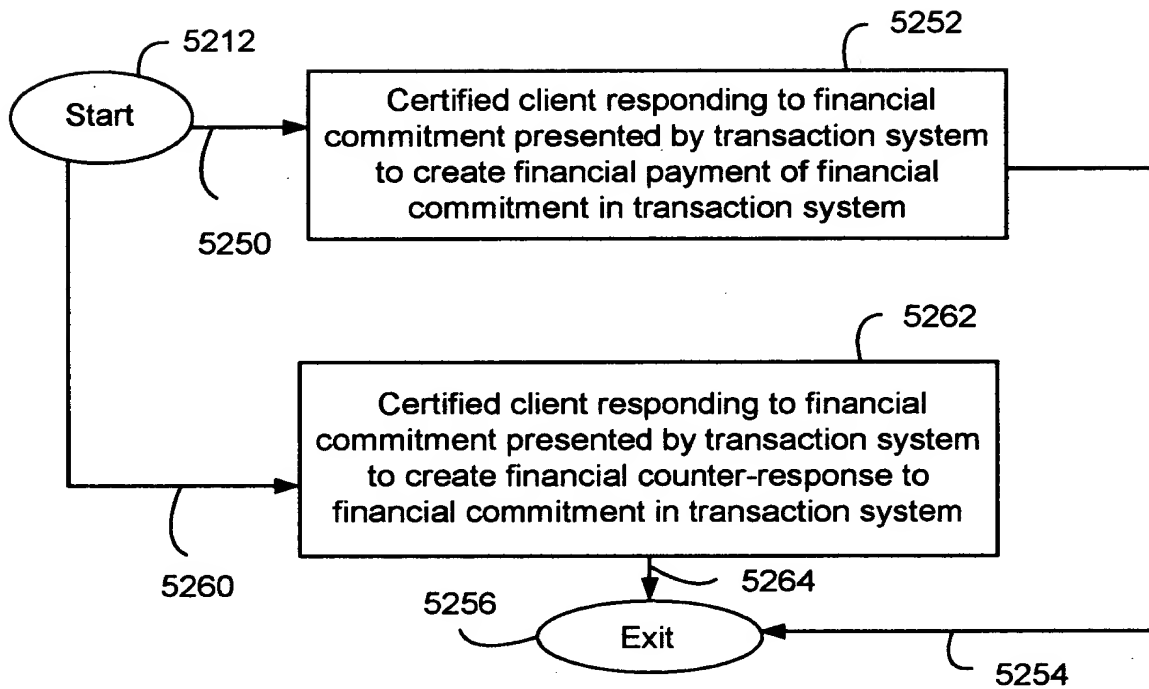


Fig. 5B

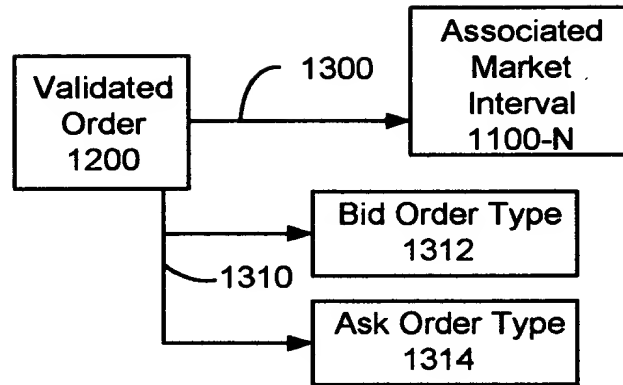
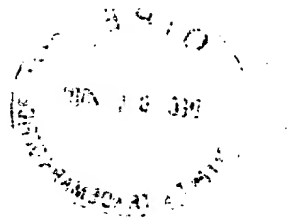


Fig. 6A

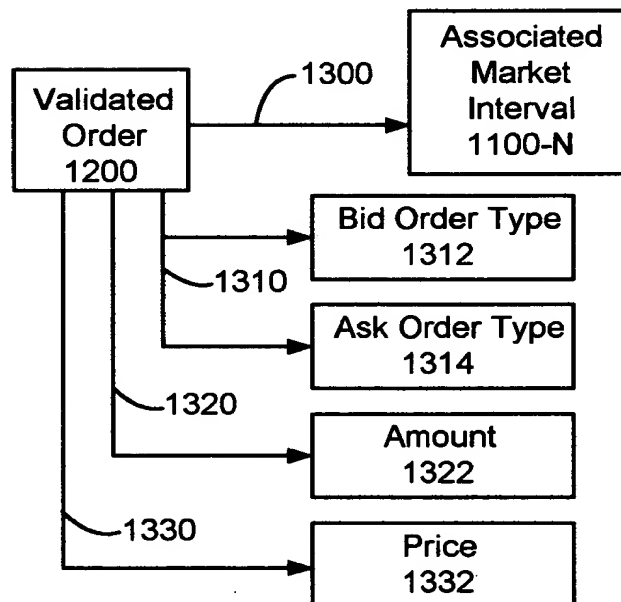


Fig. 6B

Market
Interval
1100

Energy
Product
Type
1110

Location
1112
1st
Node

Time
Interval
1114

Fig. 7A

Transfer
Interval
1100

AC
Power
Transfer
Product
Type
1110

Location
1112
1st
Node
to 2nd
Node

Time
Interval
1114

Fig. 7B

Transfer
Interval
1100

AC
Power
Transfer
Product
Type
1110

Location
1112
Flow
Gate

Time
Interval
1114

Fig. 7C

Transfer
Interval
1100

AC Power Transfer
Point-to-Point
Product Type
1116

Location
1112
1st
Node
to 2nd
Node

Time
Interval
1114

Fig. 7D

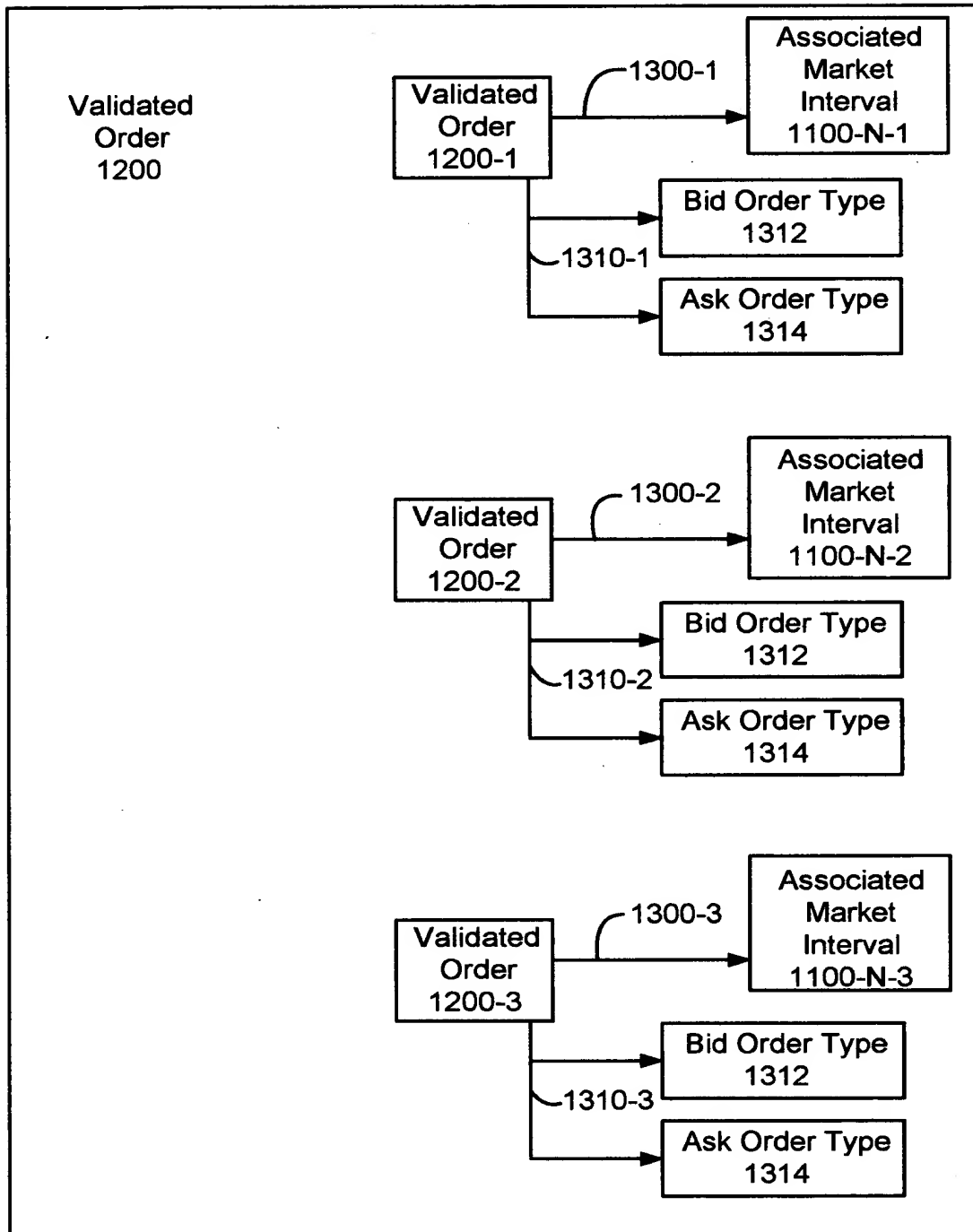


Fig. 8

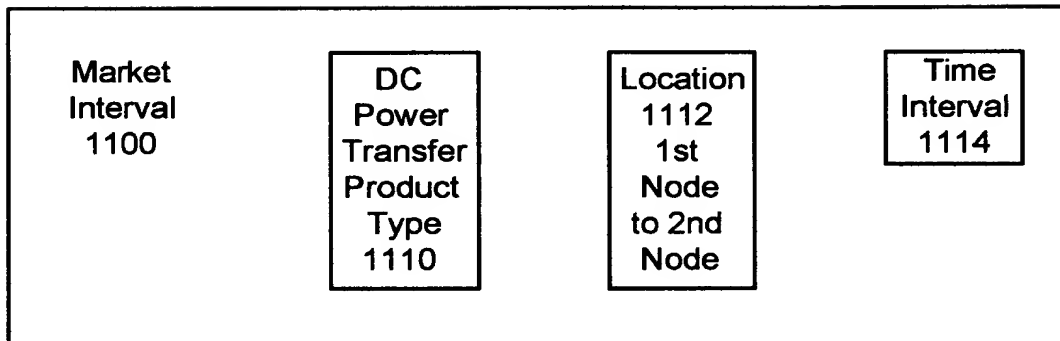


Fig. 9A

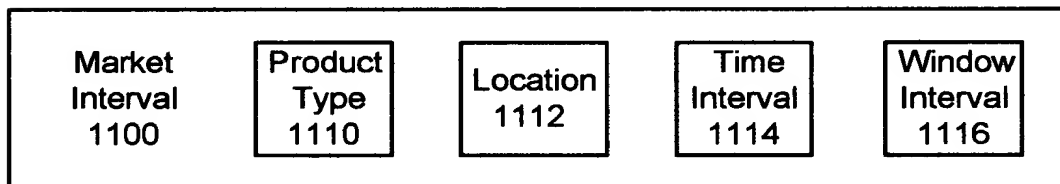


Fig. 9B

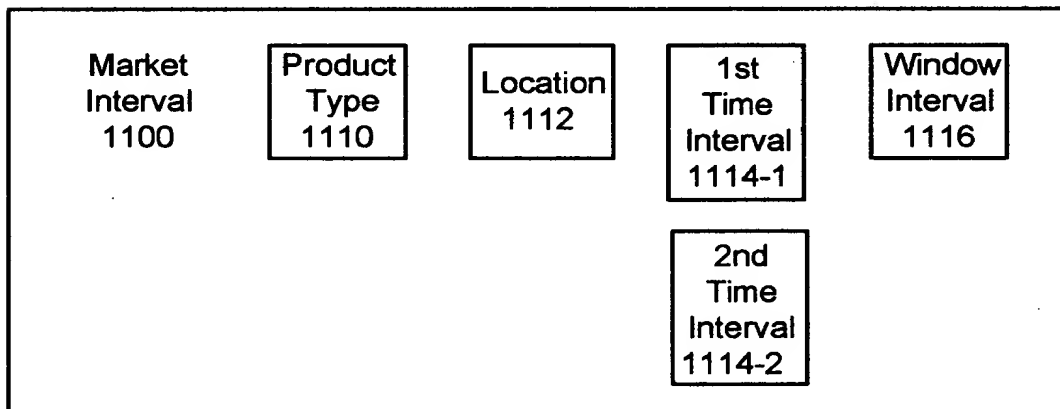


Fig. 9C

APX Market Window (TM) (Generation Resources (Participant Sale))

File Edit View Order Message Tools Window Help

Generation 7030 (GMM) 7002

Unit COCOPP_7_Unit 1

Sell APX Zone Illinois

Commodity Hourly Energy

Display Options 7004

MW's of Total Only

Market Depth Highest Bid & Lowest Ask

☐ Min & Max Order Allowed

☐ Local Time (GMT-05:00) Eastern Time

☐ Generation Curve

Order Options

☐ At Market ☒ Limit

☐ Use Withdraw Date & Time

☐ Display order summary when submitting order(s)

☐ Display warning for orders outside native zone

☐ Only order in round lot multiple of 25 MW

7006

November 1998

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

11/10/98 11/11/98

Transfer Out	Market Time	Market Price (\$/MWh)	Contracted Position (Net MW)	Pending Position (Net MW)	Total Position (Net MW)	Highest Bid Quantity (Net/MWh)	Highest Bid Price (\$/MWh)	Lowest Ask Quantity (Net/MWh)	Lowest Ask Price (\$/MWh)	New Order (Net MW)	Limit Price (\$/MWh)	Limit Range
Import	Ending (ST)	7008	7010	7012	7014	7016	7018	7020	7022	7024		
Export	1	14.54	0.00	0.00	0.00	36.59	11.20	35.99	12.43	25.00	20.00	Or More
	2	12.17	0.00	0.00	0.00	26.98	11.71	38.84	14.21	25.00	20.00	Or More
Trans- mission	3	12.96	12.00	13.00	25.00	32.41	12.99	40.76	15.40	25.00	20.00	Or More
	4	14.45	12.00	13.00	25.00	39.55	17.61	29.77	18.76	25.00	20.00	Or More
Initiate Bilateral	5	18.17	12.00	13.00	25.00	45.61	18.02	25.56	20.54	25.00	20.00	Or More
	6	19.91	12.00	13.00	25.00	40.33	20.89	34.16	23.17	25.00	20.00	Or More
	7	22.31	25.00	0.00	25.00	50.94	22.39	43.08	24.12	25.00	20.00	Or More
	8	22.42	25.00	0.00	25.00	59.49	22.40	40.09	25.28	25.00	20.00	Or More
Confirm Bilateral	9	23.47	25.00	0.00	25.00	61.26	24.05	46.29	25.28	25.00	20.00	Or More
	10	24.05	25.00	0.00	25.00	26.94	24.17	50.06	24.71	25.00	20.00	Or More
	11	24.17	25.00	0.00	25.00	26.85	23.73	45.69	26.09	25.00	20.00	Or More
Portfolio Manager	12	23.73	25.00	0.00	25.00	35.01	23.19	46.22	25.39	25.00	20.00	Or More
	13	23.30	25.00	0.00	25.00	51.60	20.62	42.48	25.39	25.00	20.00	Or More
	14	21.26	25.00	0.00	25.00	56.34	21.99	44.09	24.04	25.00	20.00	Or More
Orders	15	22.37	25.00	0.00	25.00	53.21	22.05	40.71	24.19	25.00	20.00	Or More
	16	22.53	25.00	0.00	25.00	28.80	21.40	42.38	23.75	25.00	20.00	Or More
	17	22.75	25.00	0.00	25.00	48.05	23.58	40.24	25.05	25.00	20.00	Or More
	18	23.80	25.00	0.00	25.00	38.89	24.05	34.85	26.81	25.00	20.00	Or More
Graphs	19	24.75	25.00	0.00	25.00	38.48	24.93	37.47	26.37	25.00	20.00	Or More
	20	24.98	25.00	0.00	25.00	31.43	23.64	31.10	25.47	25.00	20.00	Or More
	21	24.07	25.00	0.00	25.00	40.56	21.07	43.59	23.98	25.00	20.00	Or More
Market Depth	22	21.12	25.00	0.00	25.00	43.24	17.75	31.24	21.01	25.00	20.00	Or More
	23	19.83	12.00	0.00	25.00	41.08	15.27	33.41	19.29	25.00	20.00	Or More
	24	17.06	12.00	0.00	25.00							

Submit Withdraw Summary Save Refresh

Fig. 10

7100

APX Market Window (TM) (Generation Resources (Participant Sale))

File Edit View Order Message Tools Window Help

Generation 7130

Unit 7102 COCOPP 7 Unit 1

Sell APX Zone Illinois

Commodity Daily On Peak Energy (hr7 to 22)

7104

Display Options

Order Options

At Market ☒ Limit

Use Withdraw Date & Time ☐

Display order summary when submitting order(s) ☐

Display warning for orders outside native zone ☐

Only order in round lot multiple of 25 MW ☐

Display Options

Total Only ☐

Highest Bid And Lowest Ask ☐

Min & Max Order Allowed ☐

Market	Time	Day	Week	Price (\$/MWh)	Quantity (Net MW)	Position	Pending	Total	Highest Bid	Highest Price	Lowest Ask	Lowest Price	New Order	Limit Price	Limit Range
Import	Ending	7106	7110	7112	7114										
Export	11/07/1998	Saturday		23.46	0.00	0.00	0.00	0.00	7116						
Trans- mission	11/08/1998	Sunday		21.07	0.00	0.00	0.00	0.00	7118						
Initiate Bilateral	11/09/1998	Monday		22.58	0.00	0.00	0.00	0.00	7120						
	11/10/1998	Tuesday		17.58	0.00	0.00	0.00	0.00	7122						
	11/11/1998	Wednesday		17.94	0.00	0.00	0.00	0.00	7124						
	11/12/1998	Thursday		16.72	10.00	0.00	0.00	0.00	7126						
Confirm Bilateral	11/13/1998	Friday		22.27	10.00	0.00	0.00	0.00	23.28	25.50	20.61	35.50	23.28	25.50	20.61 Or More
	11/14/1998	Saturday		23.70	0.00	0.00	0.00	0.00	25.21	30.56	22.25	42.21	25.21	30.56	22.25 Or More
Portfolio Manager	11/15/1998	Sunday		15.62	0.00	0.00	0.00	0.00	15.98	51.64	15.12	48.82	15.98	51.64	15.12 Or More
	11/16/1998	Monday		16.15	0.00	0.00	0.00	0.00	16.89	52.37	15.24	47.95	16.89	52.37	15.24 Or More
	11/17/1998	Tuesday		20.51	10.00	0.00	0.00	0.00	21.64	37.26	20.45	48.42	21.64	37.26	20.45 Or More
	11/18/1998	Wednesday		18.60	10.00	0.00	0.00	0.00	19.04	35.75	18.53	51.32	19.04	35.75	18.53 Or More
Orders	11/19/1998	Thursday			0.00	0.00	0.00	0.00							
	11/20/1998	Friday			0.00	0.00	0.00	0.00							
	11/21/1998	Saturday			0.00	0.00	0.00	0.00							
Graphs	11/22/1998	Sunday			0.00	0.00	0.00	0.00							
	11/23/1998	Monday			0.00	0.00	0.00	0.00							
Market Depth															

Fig. 11

Submit Withdraw Summary Save Refresh

APX Market Window (TM) (Flowgate Trading)																																																																						
File Edit View Order Message Tools Window Help																																																																						
<div>7230</div> <table border="1"> <thead> <tr> <th colspan="7">May 1999</th> </tr> <tr> <th>Sun</th> <th>Mon</th> <th>Tue</th> <th>Wed</th> <th>Thu</th> <th>Fri</th> <th>Sat</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>6</td> <td>7</td> </tr> <tr> <td>8</td> <td>9</td> <td>10</td> <td>11</td> <td>12</td> <td>13</td> <td>14</td> </tr> <tr> <td>15</td> <td>16</td> <td>17</td> <td>18</td> <td>19</td> <td>20</td> <td>21</td> </tr> <tr> <td>22</td> <td>23</td> <td>24</td> <td>25</td> <td>26</td> <td>27</td> <td>28</td> </tr> <tr> <td>29</td> <td>30</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="2">5/10/99</td> <td colspan="2"></td> <td colspan="2"></td> <td>5/10/99</td> </tr> </tbody> </table>					May 1999							Sun	Mon	Tue	Wed	Thu	Fri	Sat	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30						5/10/99						5/10/99	Flowgate Commodity		<div>7202</div> <div>COCOPP_7_Unit 1</div> <div>Hourly Flowgate</div>		<div>7204</div> Display Options Market Depth <div>None</div> <input type="checkbox"/> Min & Max Order Allowed <input type="checkbox"/> Local Time <div>(GMT-00:00) GMT Time</div>			Order Options <input type="checkbox"/> At Market <input checked="" type="radio"/> Limit <input type="checkbox"/> Use Withdraw Date & Time <input type="checkbox"/> Display order summary when submitting order(s) <input checked="" type="checkbox"/> Display warning for orders outside native zone <input type="checkbox"/> Only order in round lot multiple of 25 MW		
May 1999																																																																						
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29	30																																																																					
5/10/99						5/10/99																																																																
Market Time	Market Price (\$/MWh)	Contracted Position (Net MW)	Pending Position (Net MW)	Total Position (Net MW)	New Order (Net MW)	Limit Price (\$/MWh)	Limit Range	N0CA->SoCA Contracted Flow (Net MW)	N0CA->SoCA Pending Flow (Net MW)	N0CA->SoCA Total Flow (Net MW)																																																												
Ending (DT) 7208		7210	7212	7214	7216			7224	7226	7228																																																												
1	0.00	0.00	0.00	0.00				0.00	0.00	0.00																																																												
2	0.00	0.00	0.00	0.00				0.00	0.00	0.00																																																												
3	0.00	0.00	0.00	0.00				0.00	0.00	0.00																																																												
4	0.00	0.00	0.00	0.00				0.00	0.00	0.00																																																												
5	0.00	0.00	0.00	0.00				0.00	0.00	0.00																																																												
6	0.00	0.00	0.00	0.00				0.00	0.00	0.00																																																												
7	0.00	0.00	0.00	0.00				0.00	0.00	0.00																																																												
8	0.00	0.00	0.00	0.00				0.00	0.00	0.00																																																												
9	0.00	0.00	0.00	0.00				0.00	0.00	0.00																																																												
10	0.00	0.00	0.00	0.00				0.00	0.00	0.00																																																												
11	0.00	0.00	0.00	0.00				0.00	0.00	0.00																																																												
12	0.00	0.00	0.00	0.00				0.00	0.00	0.00																																																												
13	0.00	0.00	0.00	0.00				0.00	0.00	0.00																																																												
14	0.00	0.00	0.00	0.00				0.00	0.00	0.00																																																												
15	0.00	0.00	0.00	0.00				0.00	0.00	0.00																																																												
16	0.00	0.00	0.00	0.00				0.00	0.00	0.00																																																												
17	0.00	0.00	0.00	0.00				0.00	0.00	0.00																																																												
18	0.00	0.00	0.00	0.00				0.00	0.00	0.00																																																												
19	0.00	0.00	0.00	0.00				0.00	0.00	0.00																																																												
20	0.00	0.00	0.00	0.00				0.00	0.00	0.00																																																												
21	0.00	0.00	0.00	0.00				0.00	0.00	0.00																																																												
22	0.00	0.00	0.00	0.00				0.00	0.00	0.00																																																												
23	0.00	0.00	0.00	0.00				0.00	0.00	0.00																																																												
24	0.00	0.00	0.00	0.00				0.00	0.00	0.00																																																												
		Submit	Withdraw	Summary				Save	Refresh																																																													

Fig. 12

Fig. 13

Fig. 14

Fig. 15

Fig. 16

Session Edit Events Help		ORGANIZER TRADING ACCOUNTING	
		Mon Jul 23, 2001	16:58:38
APX HOME APX AGREEMENTS BILLING CONTRACTS		Company: ACN1	
LOG OFF CHANGE PASSWORD		Login Contact Name: APX157	

INVOICES

PRELIMINARY

ISO PRELIMINARY REPORT & DOWNLOAD

CALENDAR 2001

OVERVIEW

SETTLEMENTS NEWS

CHARGE CODES

SAMPLE INVOICES

Generator Load

Reports and Download

Reports	Daily Download	Monthly Download	File Description
Load Meter			DESC
Generation Meter (Hourly)			DESC
Generation Meter (10-min.)			DESC
Monthly Meter Summary			DESC
Contracted Orders			DESC
Counter Party Orders			DESC
Applied Charges			DESC
Daily Charge Summary			DESC
CAISO Seasonal Super Peak Market			
Facility Names			DESC

Fig. 17

Session Edit Events Help

☐ ☒ ORGANIZER TRADING ACCOUNTING

☒ ☐ ☐ Mon Jul 23, 2001 16:59:51

APX HOME APX AGREEMENTS **BILLING** CONTRACTS Company: ACN1

LOG OFF CHANGE PASSWORD Login Contact Name: APX157

INVOICES
PRELIMINARY
ISO PRELIMINARY
REPORT & DOWNLOAD
CALENDAR 2001
OVERVIEW
SETTLEMENTS NEWS
CHARGE CODES
SAMPLE INVOICES
Generator Load

APX Monthly Invoice

For December 2001

Invoice#:

Participant: Sample Generator Name

Sample Generator Address

Sample Generator Account

Payment Due Date: January 15, 2001 10:00AM

Click on a link to see details for that day 7804

7802

Date Issued	Description	Download	APX Fees	Control Area Fees	External Energy	Apex Energy
12/01/2001	STATEMENT ()	<input type="checkbox"/>	1,250.00	-3,253.00	-301,825.23	-36,543.50
12/02/2001	STATEMENT ()	<input type="checkbox"/>	1,275.95	-6,254.33	-400,323.82	-38,332.25
12/03/2001	STATEMENT ()	<input type="checkbox"/>	1,254.25	-1243.34	-1387,655.05	-23,467.82
12/04/2001	STATEMENT ()	<input type="checkbox"/>	1,185.13	-3,897.12	-225,438.24	-29,877.03
12/05/2001	STATEMENT ()	<input type="checkbox"/>	1,233.00	-29,774.05	-203,546.33	-33,854.50
12/06/2001	STATEMENT ()	<input type="checkbox"/>	987.65	-4,132.55	-308,488.89	-11,453.88
12/07/2001	STATEMENT ()	<input type="checkbox"/>	1,130.91	-1,565.76	-279,116.32	-9,876.30
12/08/2001	STATEMENT ()	<input type="checkbox"/>	999.04	-11,664.87	-233,129.04	-22,675.75
12/09/2001	STATEMENT ()	<input type="checkbox"/>	1,089.43	-3,678.55	-408,011.49	-15,678.91
12/10/2001	STATEMENT ()	<input type="checkbox"/>	1,267.92	-3589.10	-222,555.09	-18,429.03
12/11/2001	STATEMENT ()	<input type="checkbox"/>	893.77	-8,945.23	-192,987.03	-13,742.45
12/12/2001	STATEMENT ()	<input type="checkbox"/>	1,185.05	-19,675.76	-365,981.62	5,899.44
12/13/2001	STATEMENT ()	<input type="checkbox"/>	1,118.74	-463.18	-146,706.59	-3,900.00
12/14/2001	STATEMENT ()	<input type="checkbox"/>	1,056.41	-1,943.65	-268,720.49	-11,450.20
12/15/2001	STATEMENT ()	<input type="checkbox"/>	874.32	-1,789.45	-203,456.27	-16,924.55

APX Fee Total:

\$16,801.61

Fig. 18

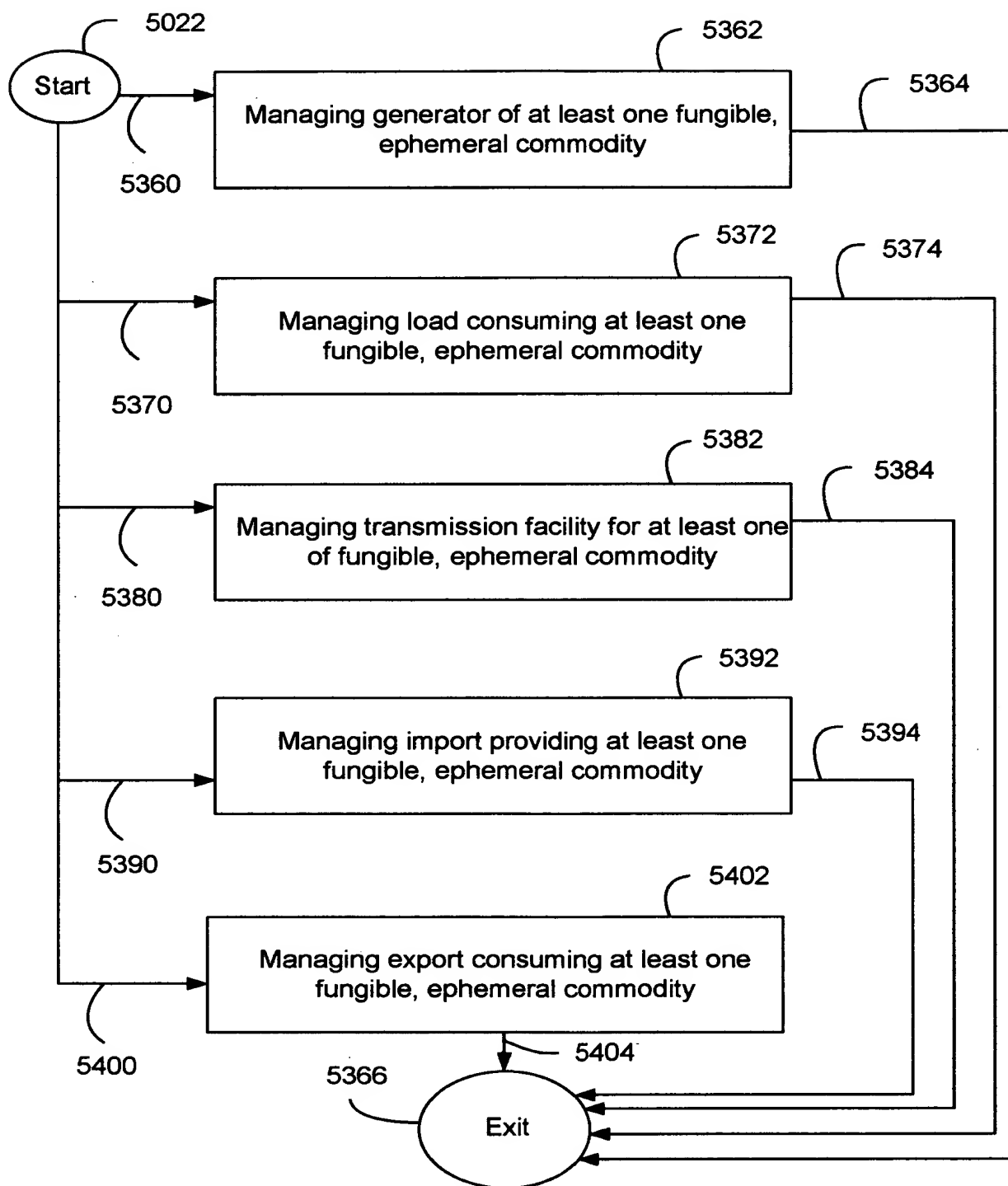


Fig. 19

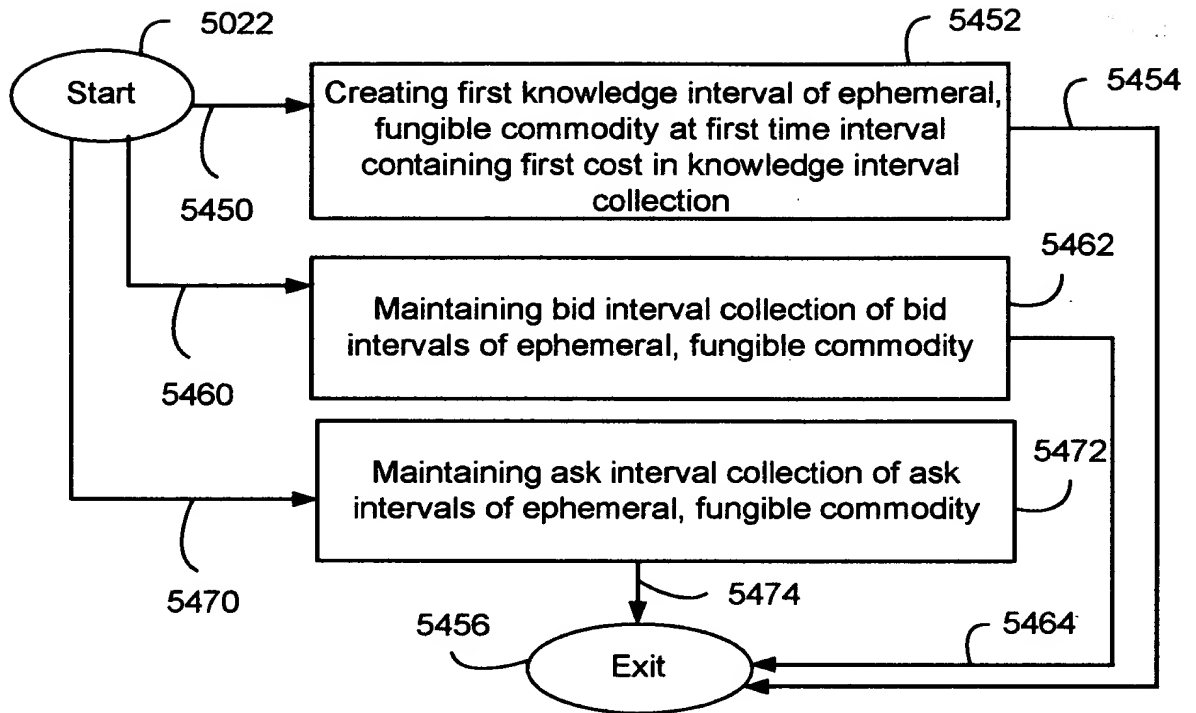


Fig. 20A

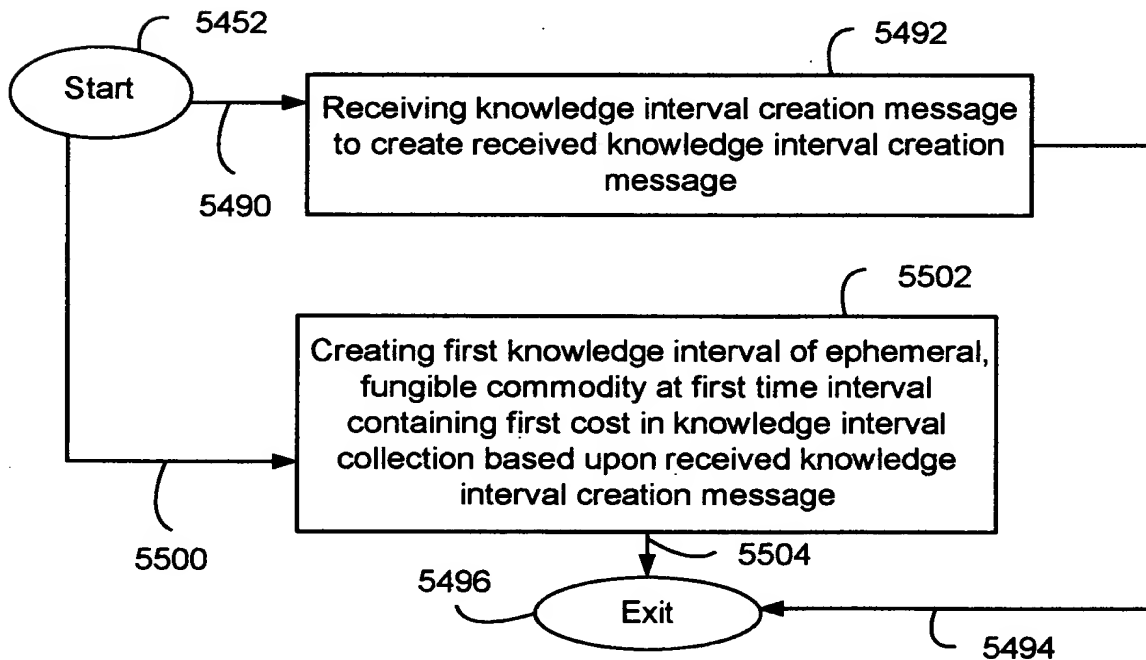


Fig. 20B

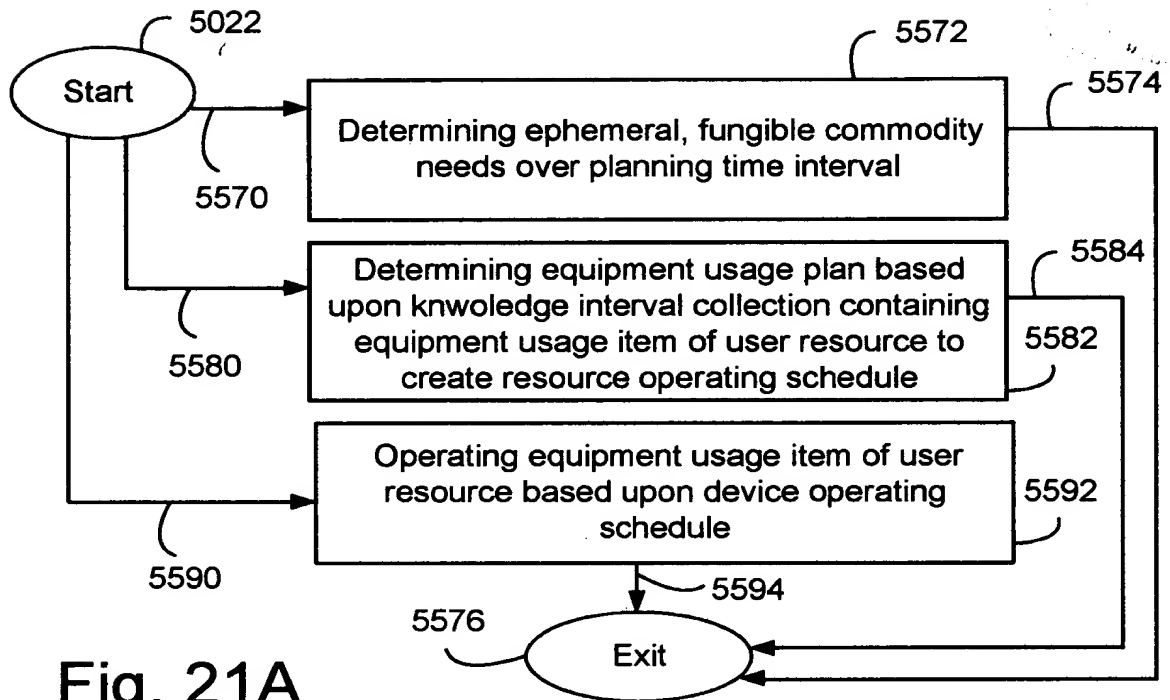


Fig. 21A

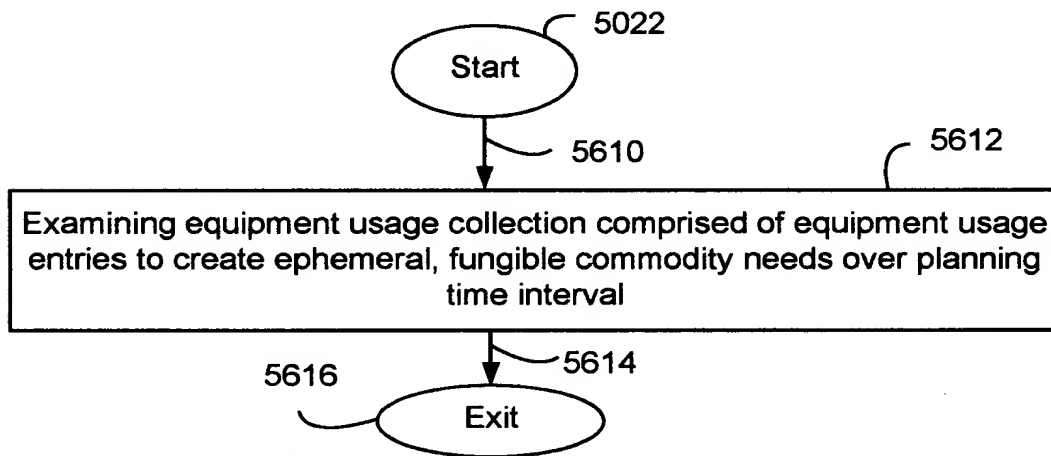


Fig. 21B

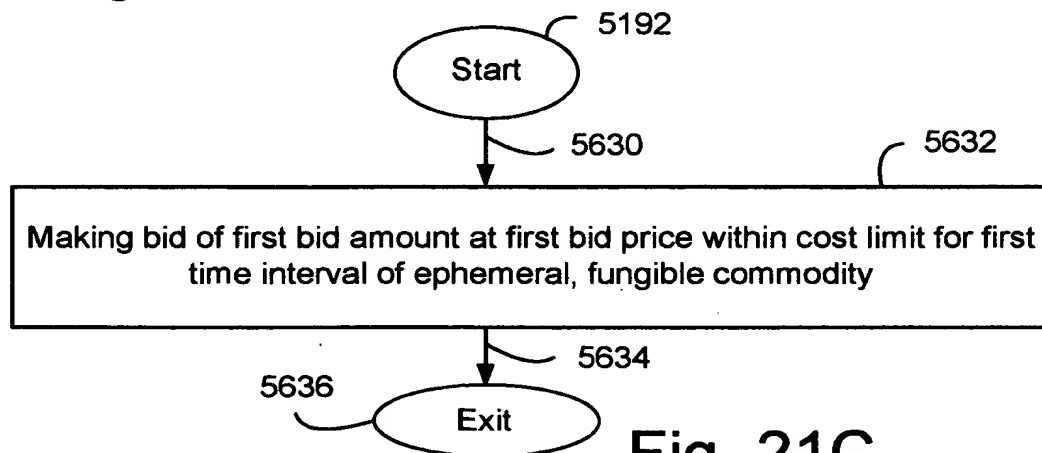


Fig. 21C

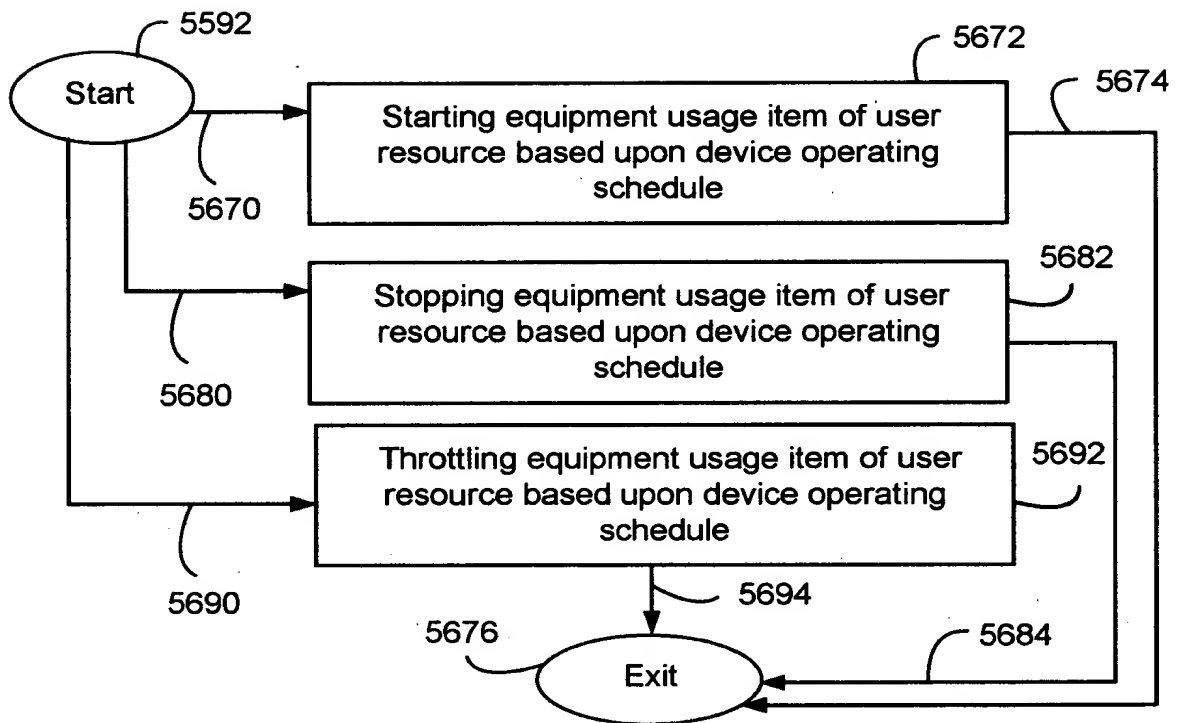


Fig. 22

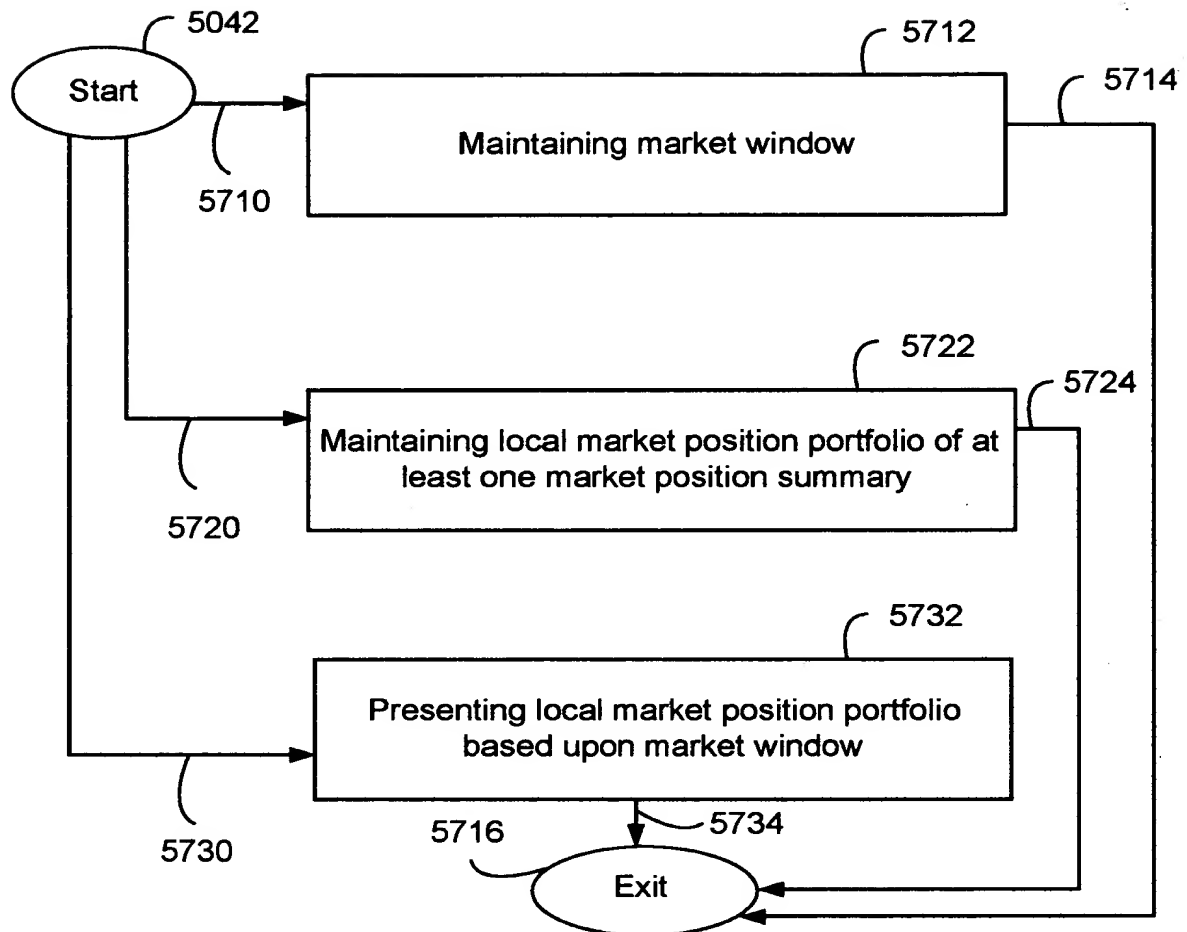


Fig. 23A

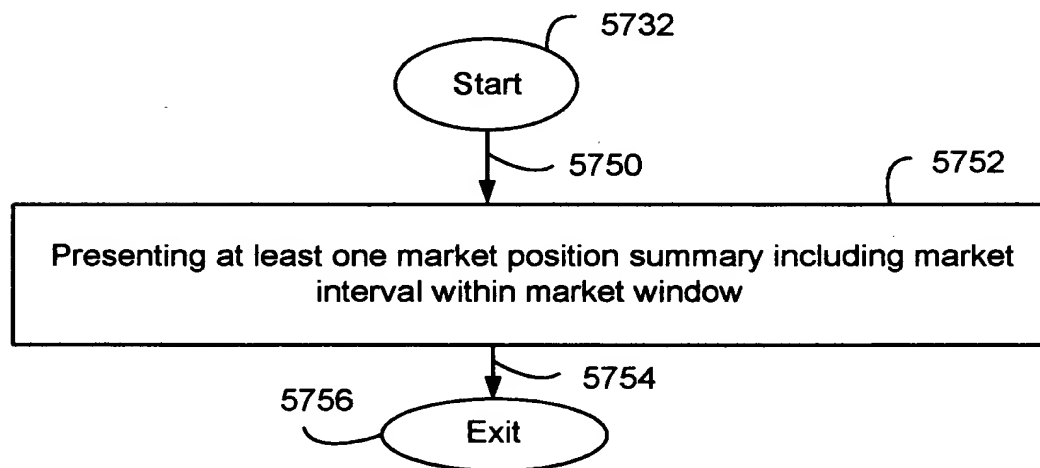


Fig. 23B

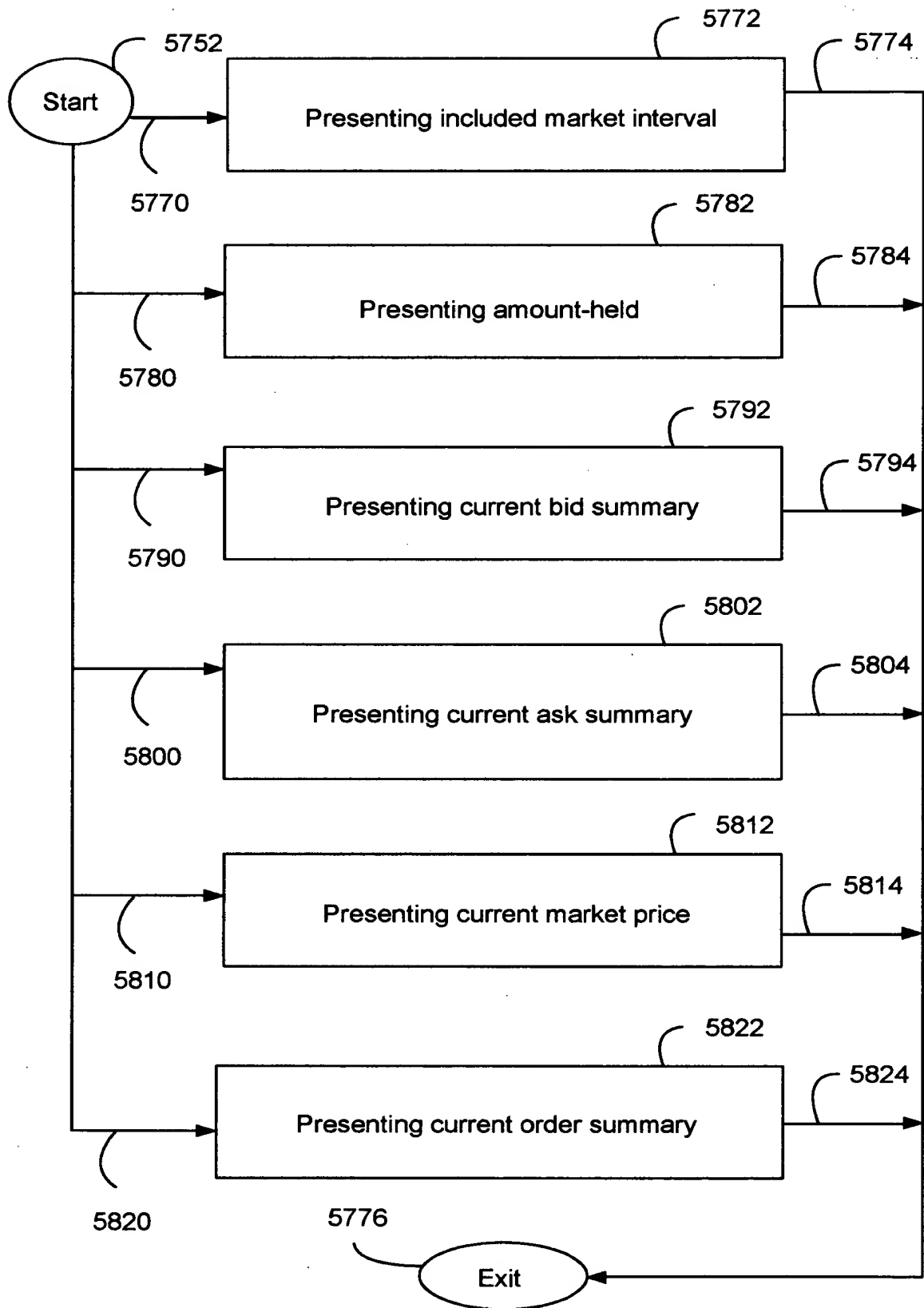


Fig. 24

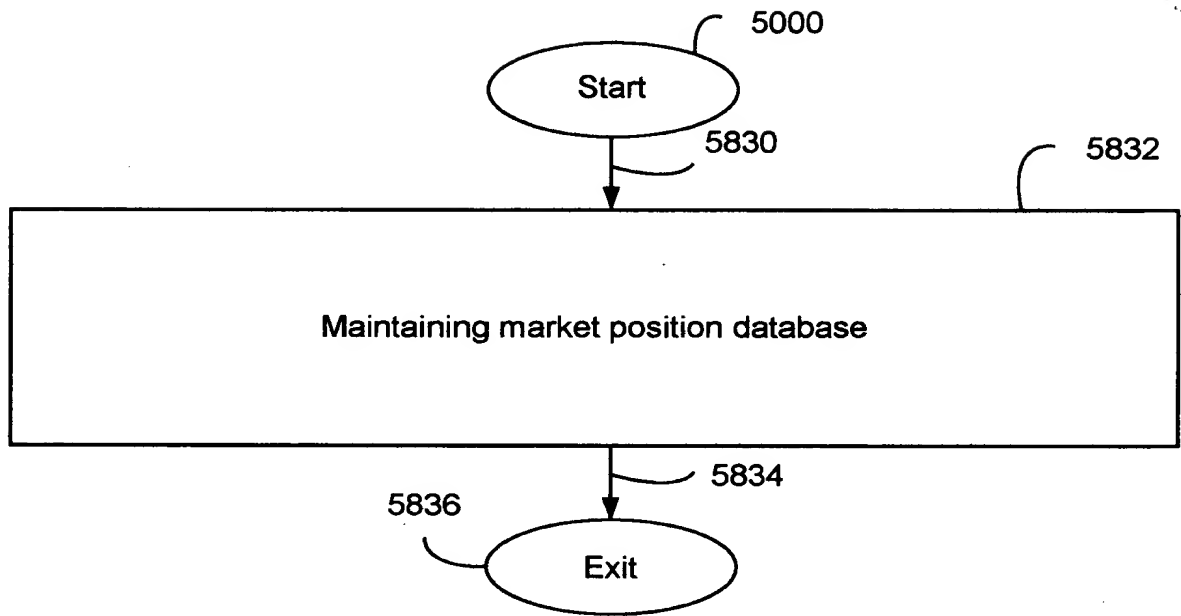


Fig. 25A

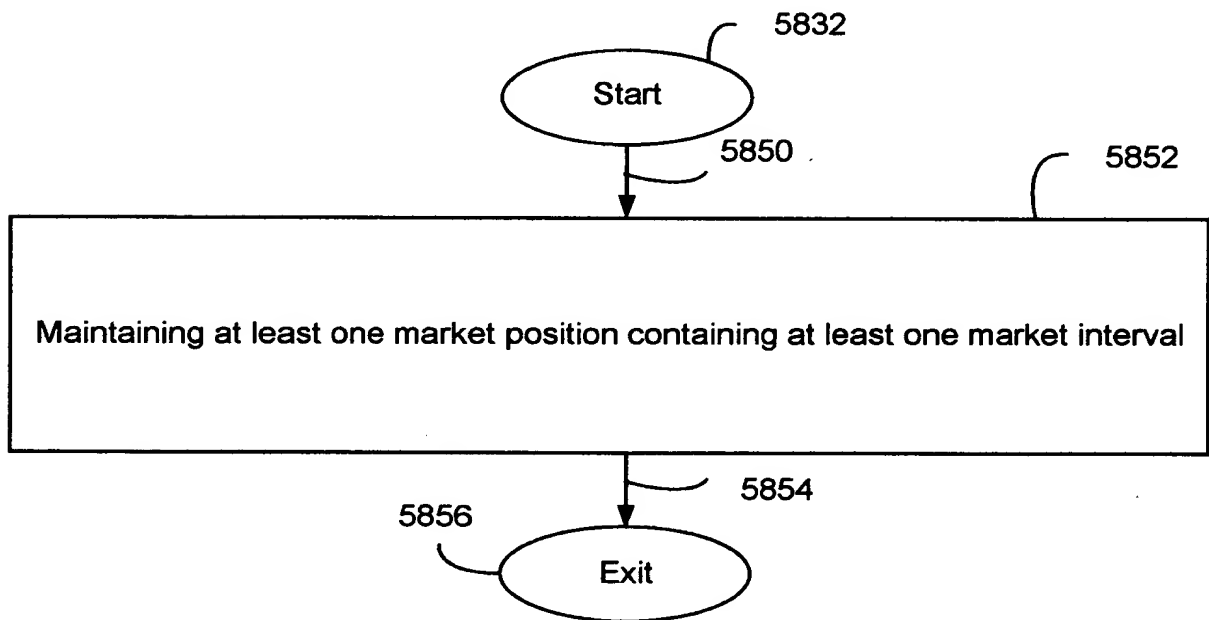


Fig. 25B

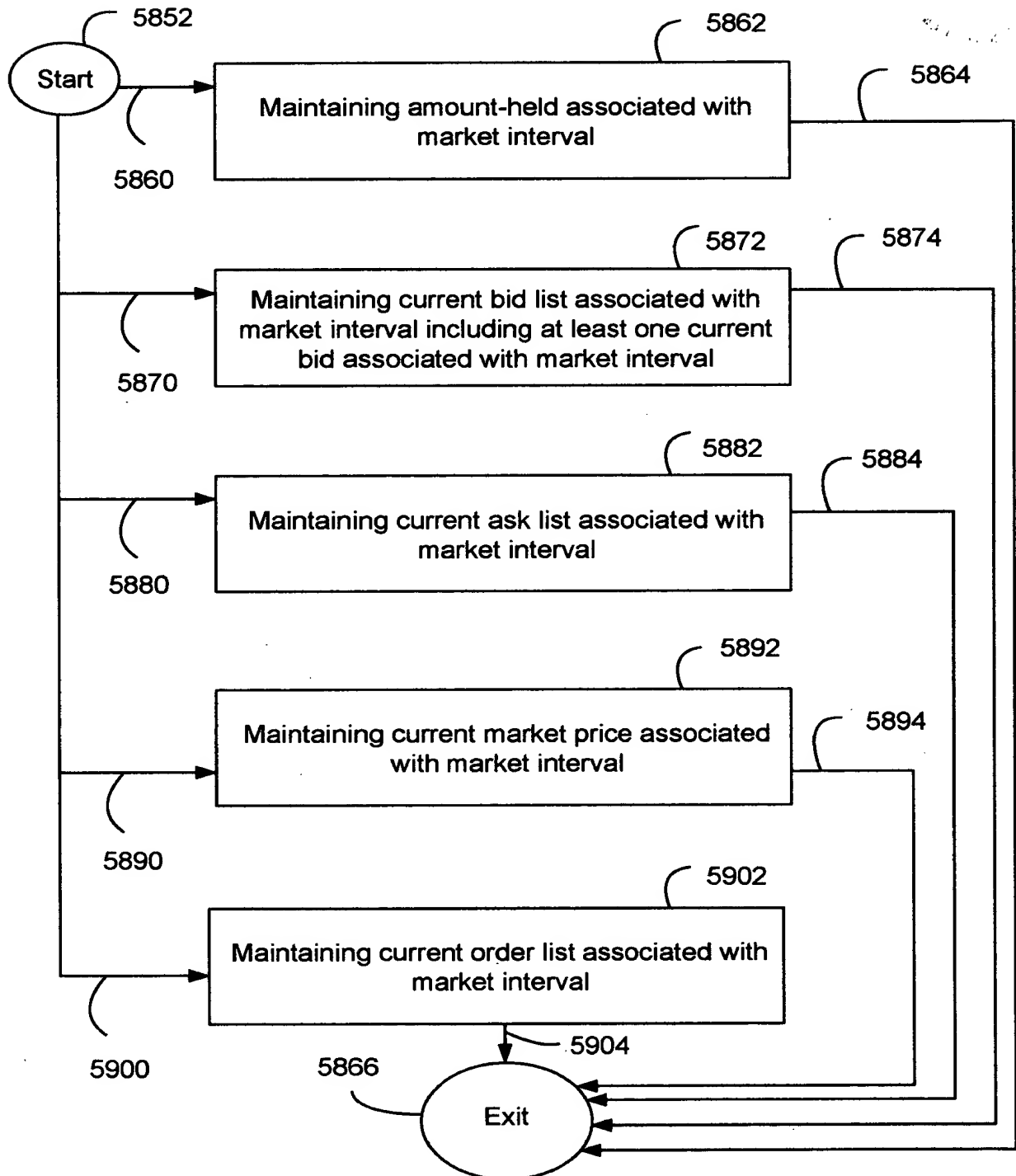


Fig. 26

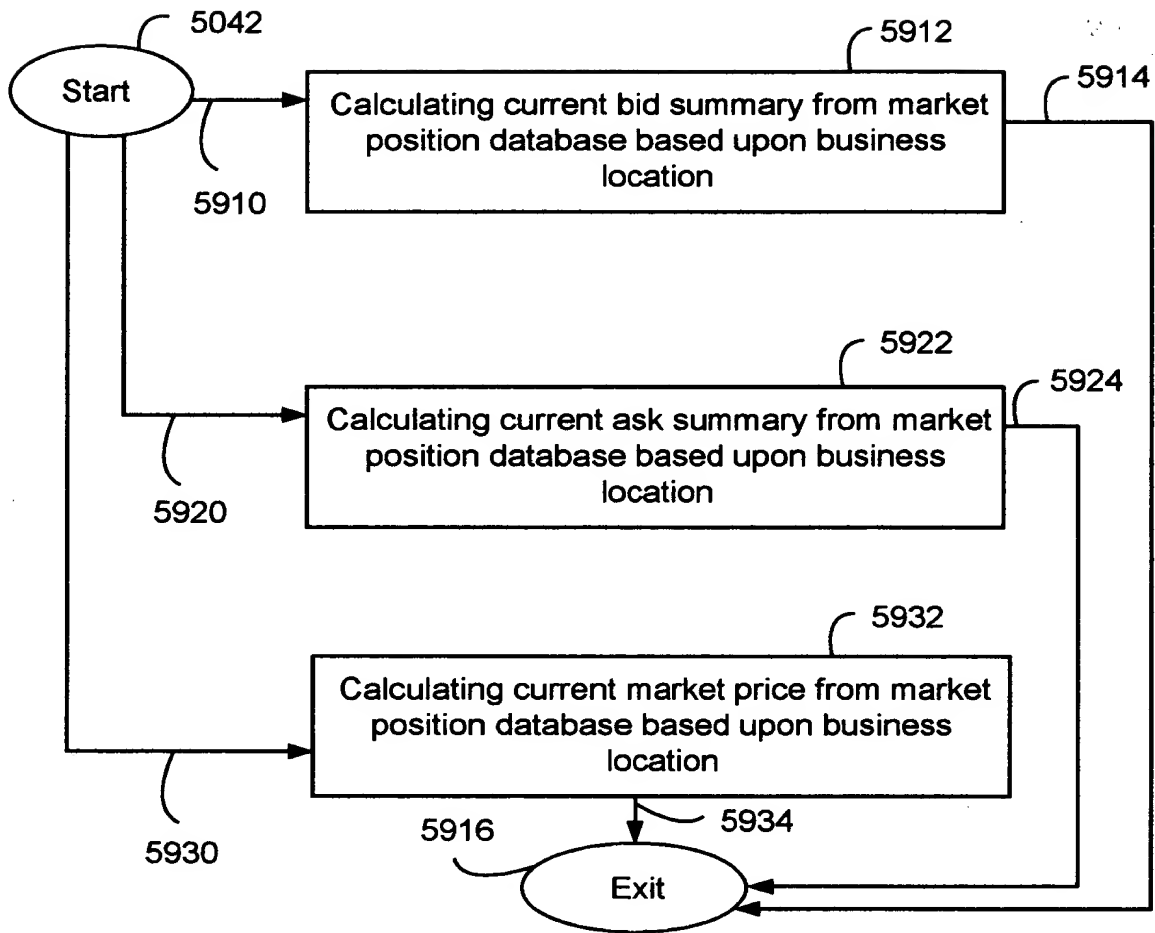


Fig. 27A

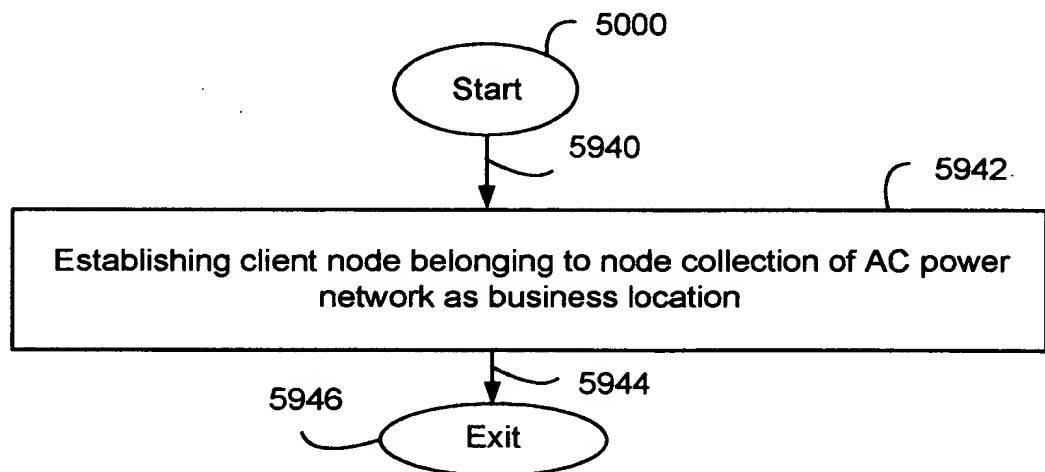


Fig. 27B

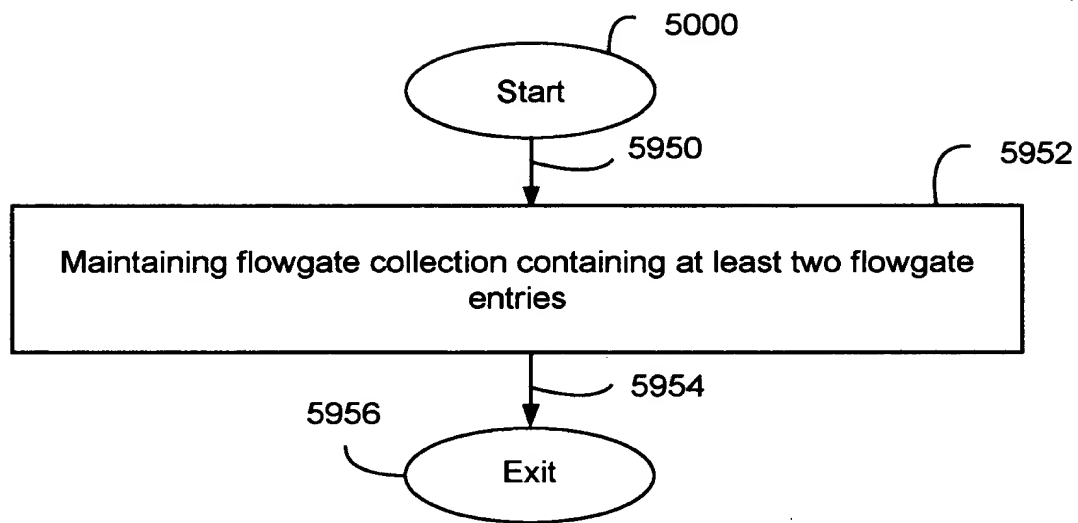


Fig. 28A

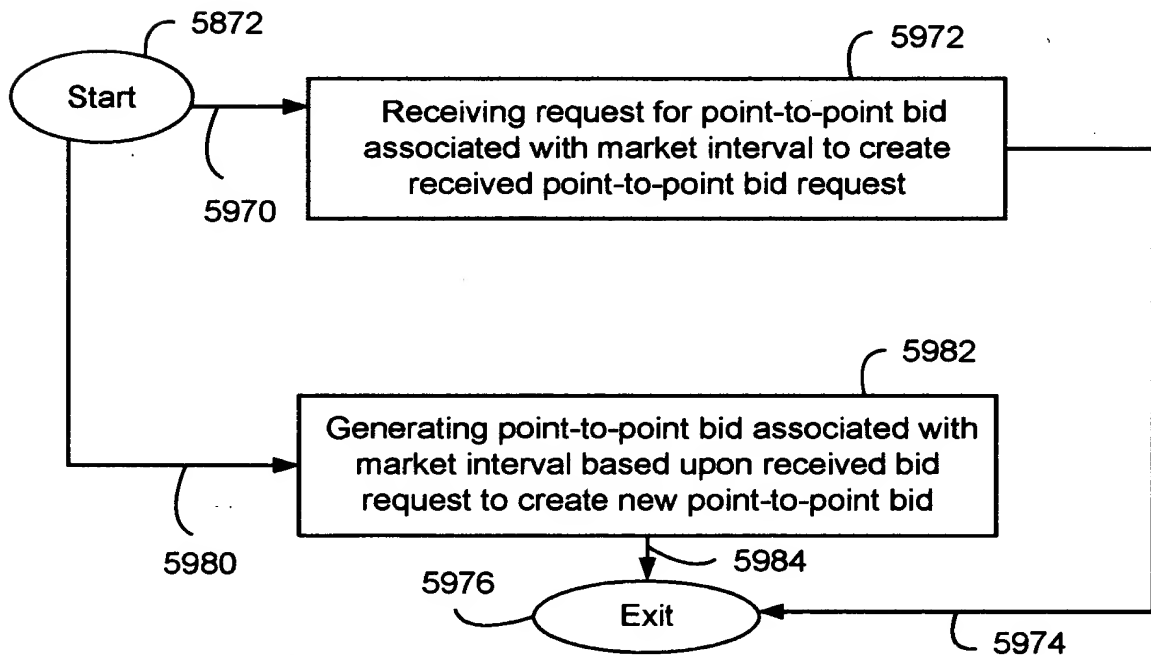


Fig. 28B

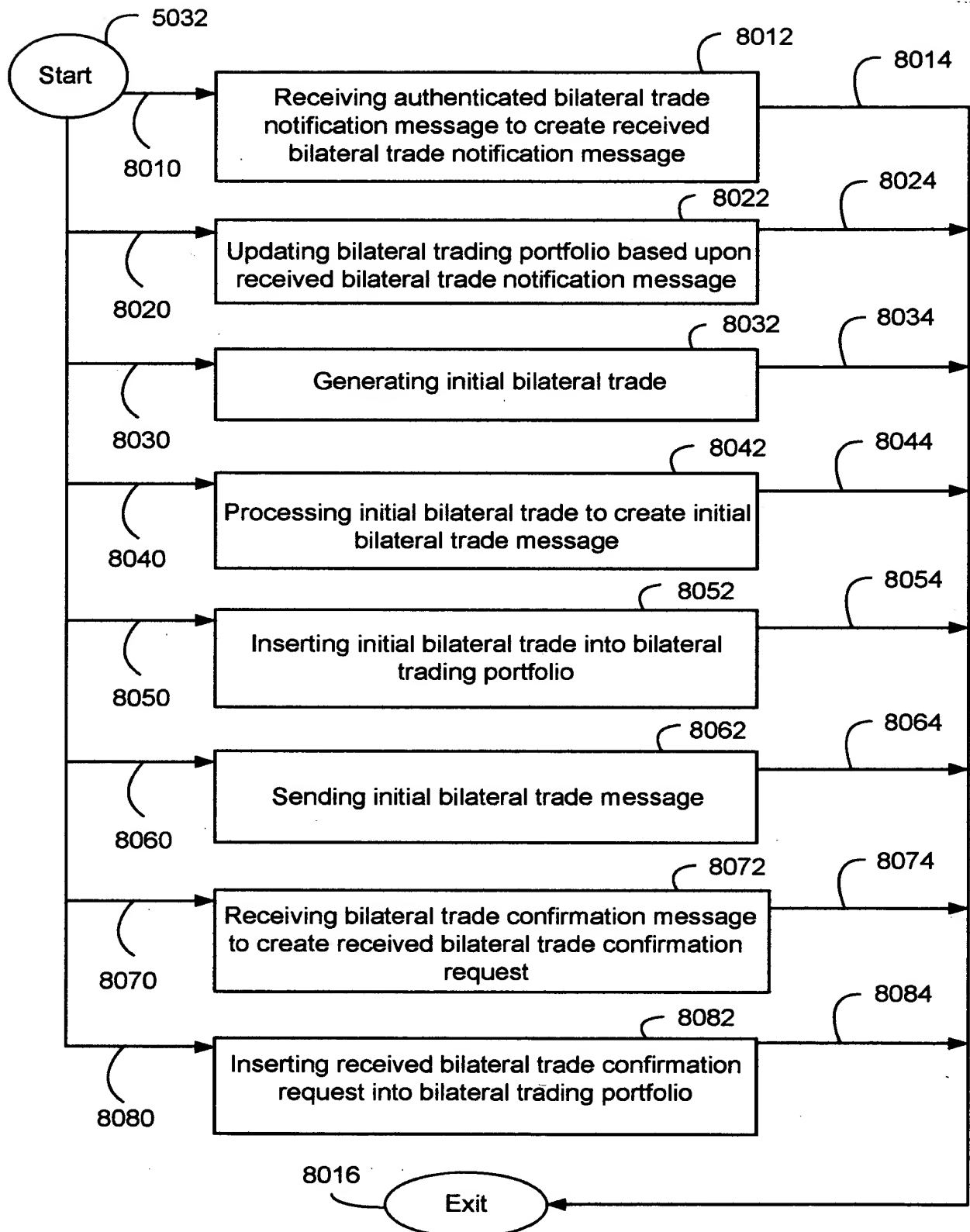


Fig. 29

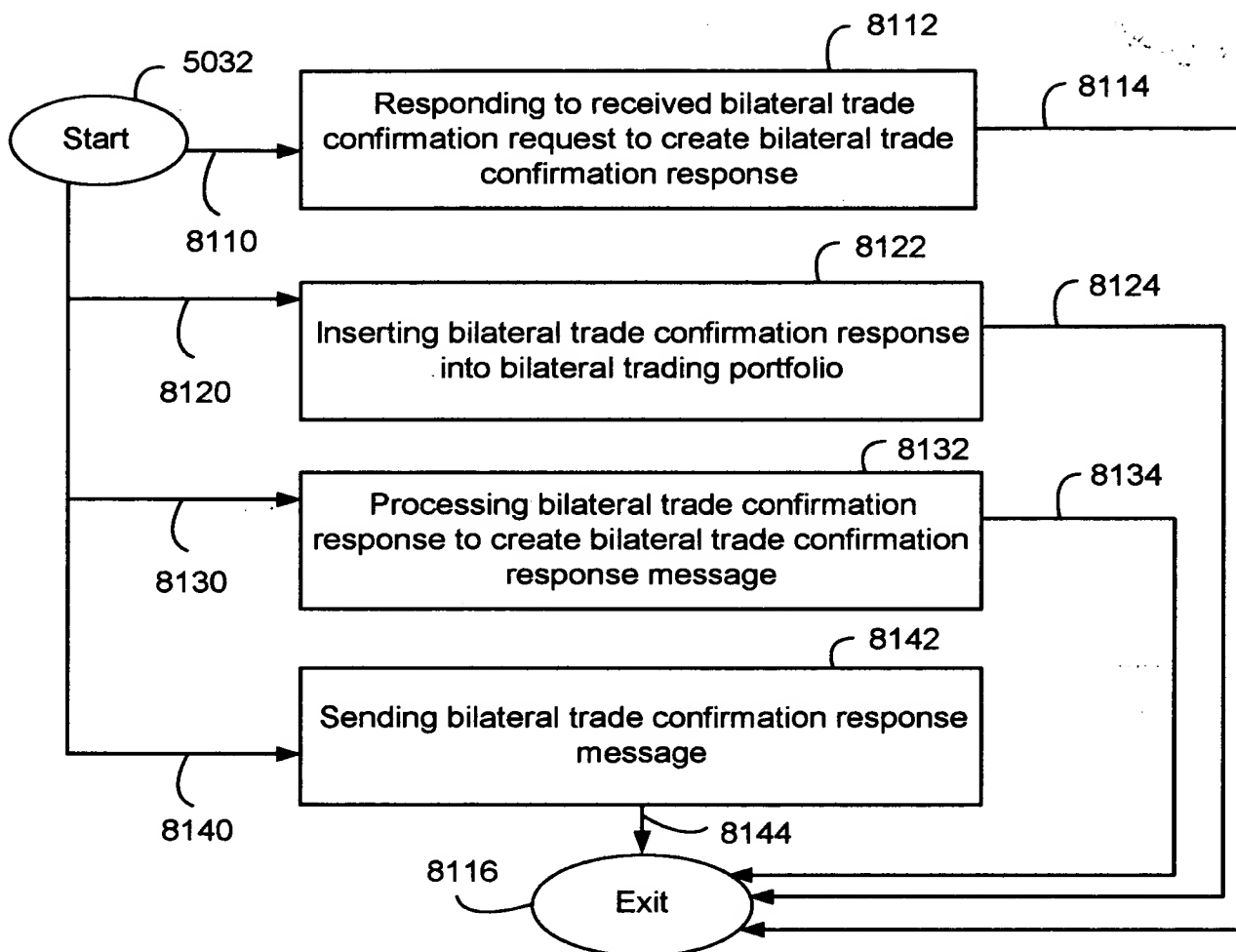


Fig. 30A

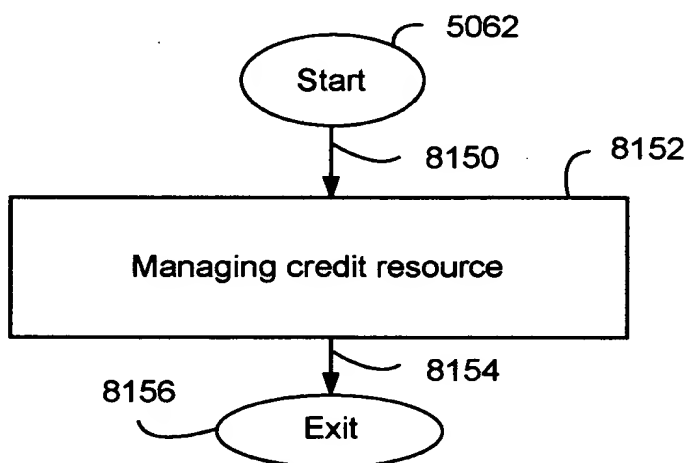


Fig. 30B

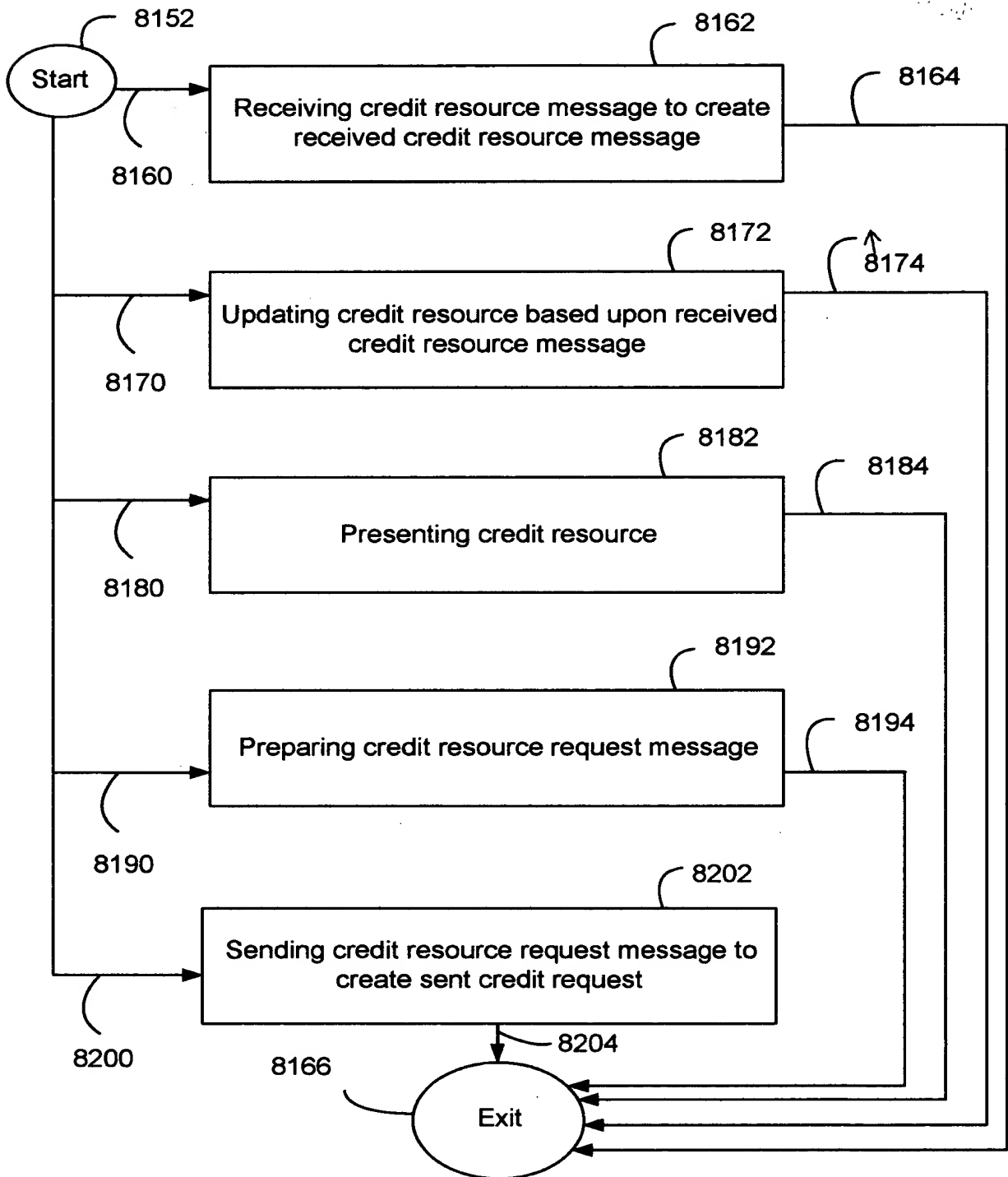


Fig. 31

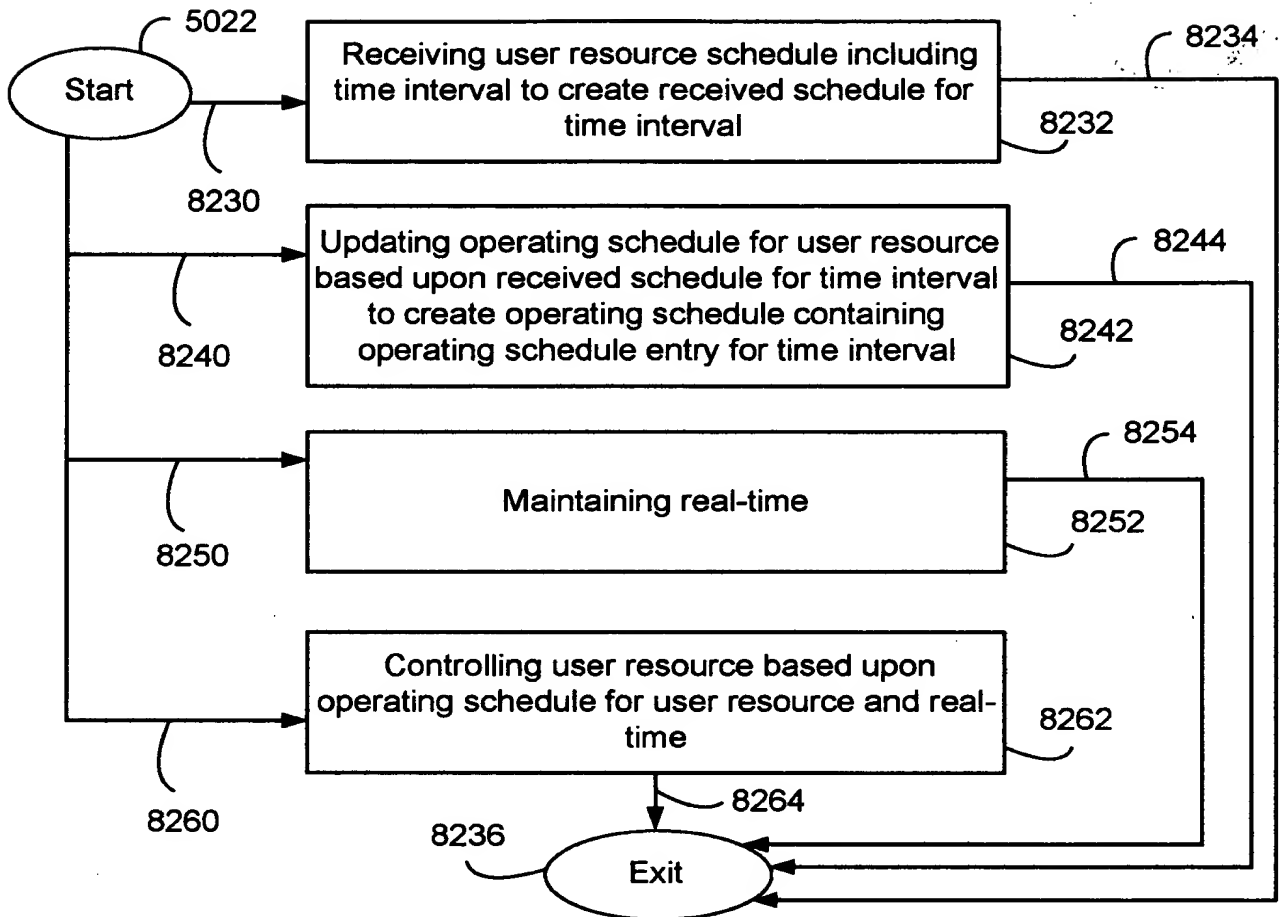


Fig. 32A

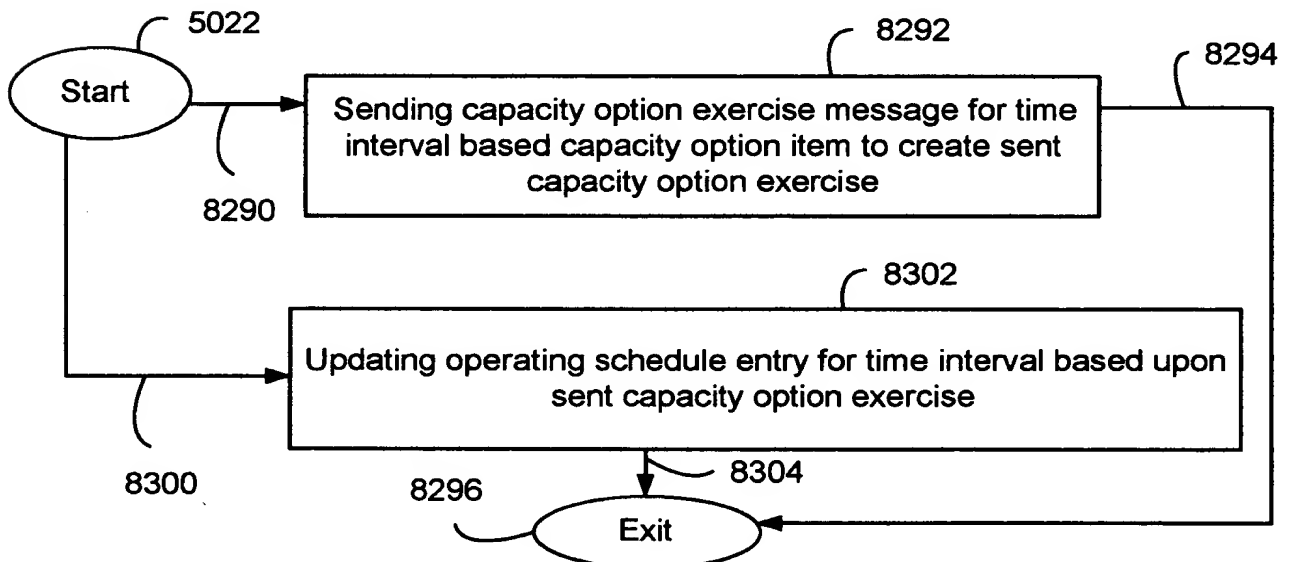


Fig. 32B

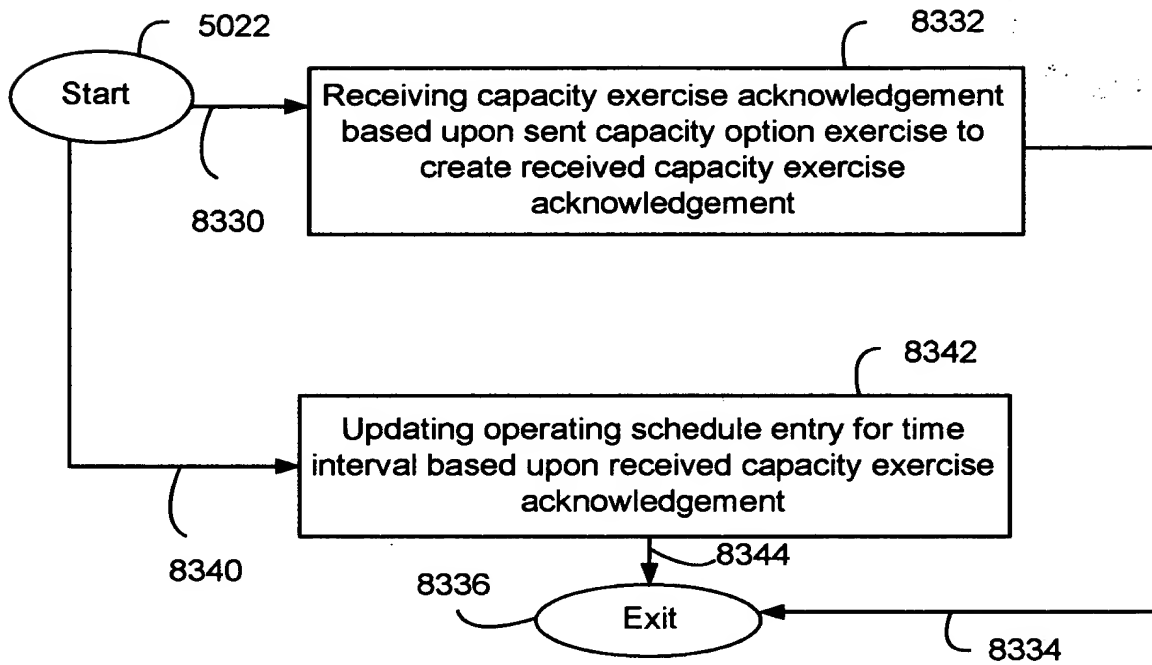


Fig. 33A

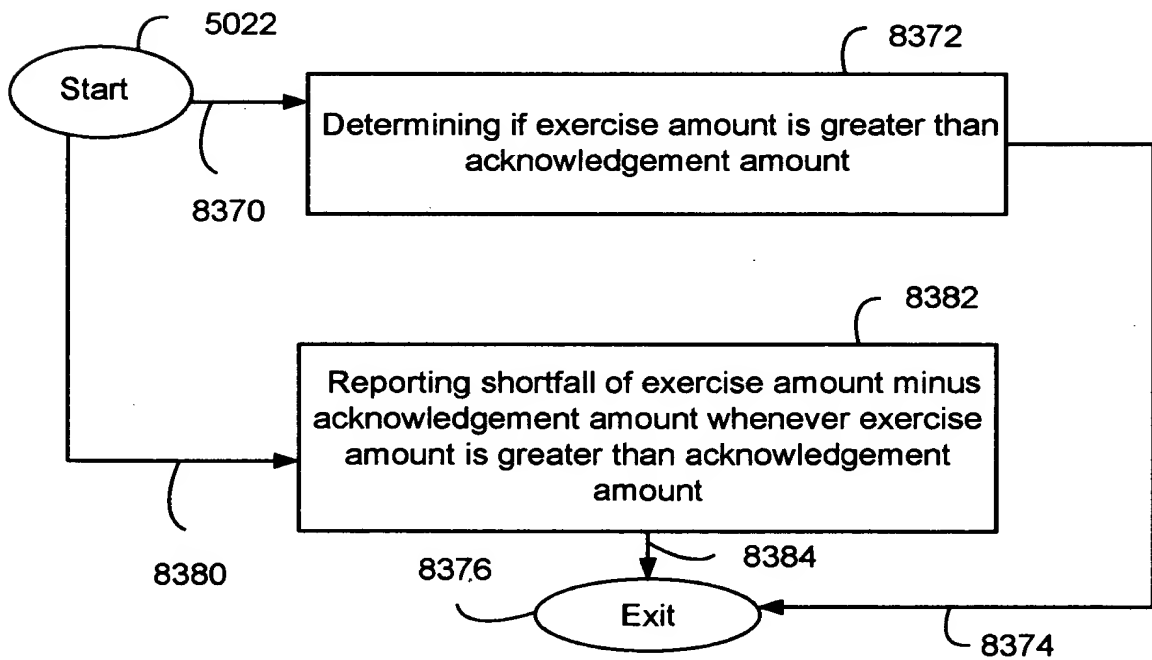


Fig. 33B

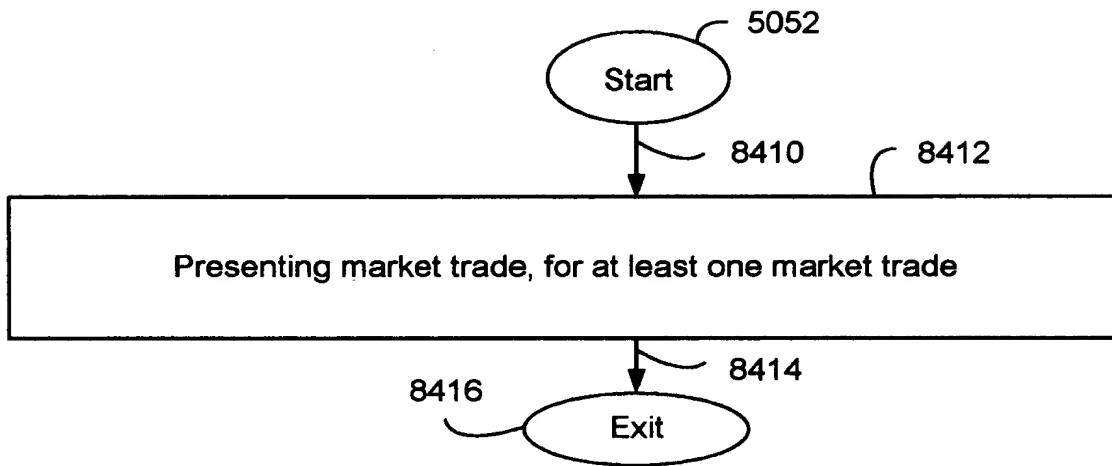


Fig. 34A

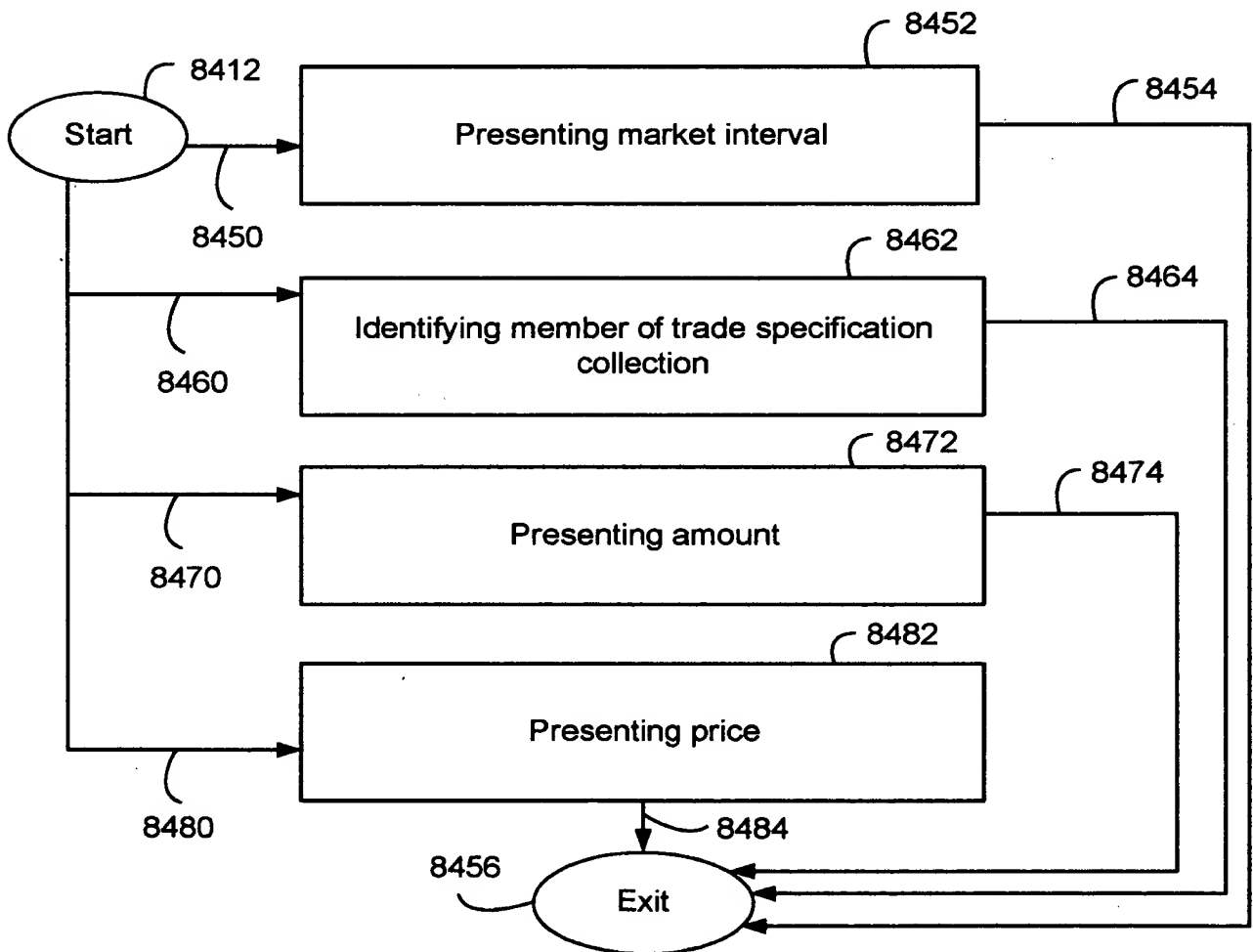


Fig. 34B